

**Pinellas Environmental Restoration Project
Interim Remedial Action
Quarterly Progress Report
for the Young - Rainey Star Center's
4.5 Acre Site**

April through June 2002

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Prepared by
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Complete Appendices will be provided upon request. Click [appendices](#) to request.

[Appendix A. Laboratory Reports—April 2002 Quarterly Results \(Table A-1 only\)](#)

Acronyms and Abbreviations

| | |
|----------|--|
| bls | below land surface |
| BTEX | benzene, toluene, ethylbenzene, and xylene |
| °C | degrees Celsius |
| Center | Young - Rainey STAR Center |
| CFU | colony forming units |
| ComQAP | Comprehensive Quality Assurance Plan |
| DCE | dichloroethene |
| DO | dissolved oxygen |
| DOE | U.S. Department of Energy |
| DPE | dual-phase extraction |
| DPT | direct push technology |
| EPA | U.S. Environmental Protection Agency |
| FDEP | Florida Department of Environmental Protection |
| ft | feet |
| ft/ft | feet per foot |
| HPC | Heterotrophic Plate Count |
| HSWA | Hazardous and Solid Waste Amendments |
| IRA | Interim Remedial Action |
| IRAPA | Interim Remedial Action Plan Addendum |
| MCL | maximum contaminant level |
| µg/L | micrograms per liter |
| µmhos/cm | micromhos per centimeter |
| mg/L | milligrams per liter |
| mV | millivolts |
| NELAC | National Environmental Laboratory Accreditation Conference |
| NGVD | national geodetic vertical datum |
| NTU | Nephelometric Turbidity Units |
| ORP | oxidation/reduction potential |
| PCIC | Pinellas County Industrial Council |
| RAP | Remedial Action Plan |
| RCRA | Resource Conservation and Recovery Act |
| RPD | relative percent difference |
| STAR | Science, Technology, and Research |
| STL | Severn Trent Laboratories |
| TCE | trichloroethene |
| TVOCs | total volatile organic compounds |
| VOCs | volatile organic compounds |

1.0 Introduction

The Young - Rainey Science, Technology, and Research Center (STAR Center) is a former U.S. Department of Energy (DOE) facility constructed in the mid-1950s in Pinellas County, Florida. The STAR Center, while owned by DOE, primarily manufactured neutron generators for nuclear weapons. Other products manufactured at the STAR Center have included radioisotopically-powered thermoelectric generators, thermal batteries, specialty capacitors, crystal resonators, neutron detectors, lightning arrestor connectors, and vacuum switch tubes. In 1987, the U.S. Environmental Protection Agency (EPA) performed a Resource Conservation and Recovery Act (RCRA) Facility Assessment at the site to gather information on potential releases of hazardous materials. In February of 1990, EPA issued a Hazardous and Solid Waste Amendments (HSWA) Permit to DOE, enabling DOE to investigate and perform remediation activities in those areas contaminated by hazardous materials resulting from DOE operations. In November 2000, the State of Florida received HSWA authorization from the EPA. On March 17, 1995, DOE sold the facility to the Pinellas County Industrial Council (PCIC). The sales contract includes clauses to ensure continued compliance with Federal, State, and local regulations while DOE remediates the site. On July 1, 1999, the PCIC was disestablished and ownership of the STAR Center changed to the Pinellas County government.

Administration of DOE activities at the facility is the responsibility of the DOE Idaho Operations Office. Responsibility for environmental restoration activities, conducted under the EPA RCRA Corrective Action Program of 1984, was transferred from DOE's Pinellas Area Office to DOE's Grand Junction Office in October 1997. S.M. Stoller Corporation (Stoller), a prime contractor to DOE's Grand Junction Office, provides technical support to DOE for remediation and closure of all active solid-waste management units on site and for the 4.5 Acre Site.

The STAR Center is a 99-acre facility located in Largo, Florida, and lies in the northeast quarter of Section 13, Township 30 South, Range 15 East ([Figure 1](#)). The 4.5 Acre Site is located to the northwest of the STAR Center ([Figure 2](#)). This parcel was owned by DOE from 1957 to 1972, at which time it was sold to a private landowner. During the period of DOE ownership, the property was used for disposal of drums of waste resins and solvents. As a result of this practice, the surficial aquifer was impacted by volatile organic compounds (VOCs), primarily vinyl chloride, toluene, trichloroethene (TCE), and 1,2-dichloroethene (DCE). DOE completed a source removal in 1985. An Interim Remedial Action (IRA) consisting of ground water extraction and treatment via air stripping, and a routine ground water monitoring program were initiated in May 1990. In July 1997, a modification of the IRA involving installation of dual-phase extraction (DPE) wells provided a more aggressive system to remove ground water contamination. In November 1999, the DPE/air-stripping system was replaced with an in-situ biosparging treatment system. All activities associated with this site are conducted consistent with the Florida Department of Environmental Protection (FDEP) *Corrective Actions for Contamination Site Cases* (FDEP not dated) and the *Remediation Agreement for the Four and One-Half Acre Site in Largo, Pinellas County, Florida, Between: State of Florida Department of Environmental Protection and U.S. Department of Energy* (FDEP 2001).

The *4.5 Acre Site Biosparge System Integration Plan* (DOE 2000a) was approved by FDEP on January 17, 2001. This plan states that performance monitoring would be undertaken on a quarterly basis. Therefore, in July 2001, performance monitoring of the remedial system through the use of direct push technology (DPT) was undertaken. With this report, four quarters of data have been collected. Samples of ground water were collected from 35 locations to depths up to

30 feet (ft) and were analyzed for volatile organics and iron. Additionally, microbiological analyses were performed on 10 samples. [Table 1](#) shows DPT sampling locations and the sampling depths. Section 2.3 provides results from analysis of samples that were collected as part of these activities. Additional information related to the biosparge treatment systems are discussed in more detail in Section 3.0.

Ground water cleanup at the 4.5 Acre Site is proceeding, in part, according to provisions in the document *Remediation Agreement for the Four and One-Half Acre Site in Largo, Pinellas County, Florida* (FDEP 2001), an agreement between DOE and the FDEP. The Remediation Agreement requires preparation of a Remedial Action Plan (RAP) to evaluate and select the final remedial action alternative to clean up ground water beneath the Site to levels that are protective of public health and the environment. The RAP was completed in July 2001, and was approved by the FDEP in August 2001.

This document is the quarterly progress report for the 4.5 Acre Site for April through June 2002, as requested by the FDEP. The results of monitoring activities, an assessment of plume movement, a summary of the IRA treatment system performance, and a summary of ongoing and projected work are provided in this report.

1.1 Quarterly Site Activities

- Obtained water-level measurements from all monitoring wells on April 8, 2002.
- Conducted the annual sampling event (i.e., collected ground water samples from 25 monitoring wells and 60 ground water samples from 35 DPT sample locations) in April 2002 for analysis of VOCs. Five of these DPT locations were also sampled for heterotrophic bacterial plate count (10 total samples).
- Measured geochemical parameters.
- Reported the results of quarterly sampling events (this document).
- Performed preventive maintenance on the biosparge systems throughout the quarter.

2.0 Monitoring Data

2.1 Ground Water Elevations and Flow

Within a 1-hour period on April 8, 2002, depth-to-water measurements were taken in all monitoring wells at the 4.5 Acre Site as part of the sitewide quarterly sampling event. The depth to water in each well was measured with an electronic water-level indicator. The April 2002 ground water elevation data for the 4.5 Acre Site are listed in [Table 2](#). The data and information from deep wells included in Table 2 were used to construct contours of water levels in the deep surficial aquifer in [Figure 3](#).

The water levels were measured 3 days following shutdown of the biosparging system on April 5, 2002. The interpretative flow patterns shown on Figure 3 indicate a ground water low in

the center of the site, with ground water flowing towards this low from the south, east, and west. These flow patterns suggest that ground water in the center of the site was displaced by air from the biosparging system, and 3 days following system shutdown, water was still flowing towards this hydraulic low. This flow pattern is consistent with the patterns observed the previous 3 quarters. Flow patterns for the site will be closely monitored in future events. Under static, non-pumping conditions, ground water at the site has historically been observed to flow to the north-northwest with no hydraulic low in the center of the site.

The water table ranged from about 4 to 8 ft below land surface (bls), with ground water elevations that ranged from a high of 14.10 ft at PIN20-TE01 to a low of 10.05 ft at PIN20-M049. The hydraulic gradient in the south and north areas of the site were approximately 0.008 and 0.001 feet per foot (ft/ft), respectively. These gradients are similar to those observed the previous 3 quarters. Using Darcy's Law, along with approximations of 1 ft/day for hydraulic conductivity and 0.3 for effective porosity, ground water in the south part of the site is estimated to move about 10 ft/year, which is slightly greater than previously observed velocities of about 6 ft/year.

2.2 Ground Water Sampling

Twenty-five monitoring wells at 35 DPT locations were sampled by Stoller personnel in April 2002. All DPT locations were sampled at approximately 22 to 30 ft bls and a selected subset of 25 DPT locations were also sampled at approximately 16–18 ft bls (total of 60 DPT ground water samples). All DPT locations were filled with bentonite chips after sampling. The sample start depth bls is used as part of the identifier for the DPT locations for the tables in this report.

All samples were collected in accordance with the Stoller *Sampling and Analysis Plan for the Young - Rainey STAR Center*, using FDEP procedures. All samples collected were submitted to Severn Trent Services Laboratories (STL) for analysis of VOCs using EPA Method 8021. A subset of 10 samples collected from DPT locations was submitted for heterotrophic plate count (HPC) analysis. STL is accredited by the Florida Department of Health in accordance with the National Environmental Laboratory Accreditation Conference, certification number E84282.

The monitoring wells were purged with dedicated bladder pumps. The wells were micropurged, and the samples were collected when the field measurements stabilized. DPT locations were purged using a peristaltic pump and sampled when the field measurements stabilized.

[Table 3](#) and [Table 4](#) list measurements of pH, specific conductance, dissolved oxygen (DO), oxidation/reduction potential (ORP), turbidity, and temperature recorded at the time the sample was collected. These measurements were collected using a flow cell and multiparameter meter. Values for total iron and ferrous iron were measured at the DPT locations using a colorimeter and are discussed in Section 2.4.

2.3 Ground Water Analytical Results

Total VOCs (TVOCs) and benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations in samples collected from wells and direct-push locations at the 4.5 Acre Site are included in [Table 5](#) through [Table 8](#). [Table 9](#) and [Table 10](#) show results for additional VOCs detected. [Figure 4](#) shows the TVOCs concentrations, including the BTEX compounds.

No VOCs were detected in samples from the 22 monitoring wells and 26 DPT sample locations listed below.

| | | | |
|------------|------------------|------------------|--------------------|
| PIN20–0503 | PIN20–M036 | PIN20–DP03 24 ft | PIN20–DP24 24 ft |
| PIN20–M003 | PIN20–M053 | PIN20–DP04 25 ft | PIN20–DP28 18 ft |
| PIN20–M005 | PIN20–M054 | PIN20–DP09 26 ft | PIN20–DP28 24.5 ft |
| PIN20–M007 | PIN20–M18D | PIN20–DP10 26 ft | PIN20–DP29 18 ft |
| PIN20–M011 | PIN20–M22D | PIN20–DP12 18 ft | PIN20–DP29 24 ft |
| PIN20–M012 | PIN20–M38D | PIN20–DP13 18 ft | PIN20–DP30 18 ft |
| PIN20–M015 | PIN20–M40D | PIN20–DP13 26 ft | PIN20–DP30 26 ft |
| PIN20–M019 | PIN20–M40S | PIN20–DP16 22 ft | PIN20–DP31 18 ft |
| PIN20–M023 | PIN20–M41D | PIN20–DP19 25 ft | PIN20–DP32 18 ft |
| PIN20–M024 | PIN20–TE01 | PIN20–DP20 18 ft | PIN20–DP33 18 ft |
| PIN20–M025 | PIN20–DP01 18 ft | PIN20–DP23 25 ft | PIN20–DP34 18 ft |
| PIN20–M028 | PIN20–DP03 18 ft | PIN20–DP24 18 ft | PIN20–DP35 18 ft |

Samples from the three monitoring wells and 34 DPT sample locations listed below contained VOCs at detectable levels.

| | | | |
|------------------|------------------|------------------|------------------|
| PIN20–0502 | PIN20–DP07 26 ft | PIN20–DP17 18 ft | PIN20–DP26 26 ft |
| PIN20–M001 | PIN20–DP08 18 ft | PIN20–DP17 22 ft | PIN20–DP27 25 ft |
| PIN20–M049 | PIN20–DP08 25 ft | PIN20–DP18 18 ft | PIN20–DP31 24 ft |
| PIN20–DP01 23 ft | PIN20–DP11 18 ft | PIN20–DP18 24 ft | PIN20–DP32 23 ft |
| PIN20–DP02 18 ft | PIN20–DP11 26 ft | PIN20–DP20 25 ft | PIN20–DP33 23 ft |
| PIN20–DP02 26 ft | PIN20–DP12 26 ft | PIN20–DP21 18 ft | PIN20–DP34 24 ft |
| PIN20–DP05 23 ft | PIN20–DP14 18 ft | PIN20–DP21 24 ft | PIN20–DP35 23 ft |
| PIN20–DP06 18 ft | PIN20–DP14 24 ft | PIN20–DP22 24 ft | |
| PIN20–DP06 23 ft | PIN20–DP15 18 ft | PIN20–DP25 18 ft | |
| PIN20–DP07 18 ft | PIN20–DP15 22 ft | PIN20–DP25 24 ft | |

Values for TVOCs ranged from not detected to 43,500 µg/L at PIN20–DP12 26 ft. The compound detected at the highest concentration in PIN20–DP12 26 ft was vinyl chloride at a concentration of 27,000 µg/L.

Laboratory reports for quarterly samples collected in April 2002 are provided in Appendix A.

2.4 Geochemical Parameters

As part of the regular annual monitoring, 10 water samples for analysis via the HPC method were collected from five locations during the DPT sampling in April 2002. HPC measures the number of aerobic bacteria present in the sample. The purpose of measuring aerobic bacteria is to monitor the conversion from anaerobic to aerobic conditions during biosparging. As the biosparging system continues operation, the abundance of aerobic organisms should increase due to the oxygen that is injected into the subsurface.

The HPC data are shown in [Table 11](#). The precision of the colony forming units (CFU) method is plus or minus approximately 100 percent (at the 95 percent confidence level). In other words, the number of CFU needs to increase or decrease by more than 100 percent of the CFU value for the increase or decrease to be interpreted as real.

Also as part of the regular annual monitoring, samples for field analysis of dissolved total and ferrous iron were collected during the DPT sampling. Collection of these data is intended to monitor conversion from reducing to oxidizing conditions during biosparging. As the biosparging system continues operation, the reduced iron should be converted to oxidized iron. The measured iron values are shown in Table 4, and the percent of oxidized iron is shown in [Table 12](#).

Laboratory reports for annual samples collected in April 2002 are provided in Appendix A.

2.5 Quality Assurance/Quality Control

Five duplicate VOCs samples were compared and the relative percent differences (RPDs) between the results were calculated. Results of VOCs analysis for each duplicate sample are listed in [Table A-1](#) in Appendix A. None of the sample/duplicate pairs failed the suggested control limit of an RPD of less than 30 percent when the concentration was greater than 5 times the detection limit. All data are considered Class A level, indicating that the data may be appropriately used for quantitative and qualitative purposes.

According to the Stoller Sampling Plan, duplicate samples should be collected at a frequency of one duplicate for every 20 or less samples. There were 25 PIN20 ground water VOCs samples collected from standard monitoring wells and two duplicate samples. For the DPT locations, there were 60 VOCs samples collected and three duplicate samples. There were no duplicates taken for the HPC analysis as these are not required samples. The requirement of 10 percent frequency for duplicates was met.

Six trip blanks and four equipment blanks were submitted for analysis. Estimated quantities of methylene chloride were observed in six of the samples. These results were above the analytical method detection limit but below the reporting limit. The level of contamination is lower than seen in the sampling events before January 2002. The laboratory had reported that they moved their extraction laboratory (which uses methylene chloride) farther from the environmental laboratory and this appears to have helped reduce the level of laboratory contamination. The highest estimated methylene chloride value seen in the blanks was 4.5 µg/L. One trip blank also showed estimated levels of o-xylene at 0.17 µg/L.

3.0 Biosparge System Operation

3.1 Biosparge System Performance

The biosparge systems at the 4.5 Acre Site were continuously operational throughout the quarter, with the exception of the period from April 5 through 11, 2002. During that period, quarterly sampling was performed at the 4.5 Acre Site. Upon completion of sampling on April 11, the biosparge operations were restarted. All three systems continue to operate successfully with the new single pulley/single belt drive configuration.

3.2 Biosparge System Sampling and Monitoring

As described in the previous quarterly report, the Interim Remedial Action Plan Addendum (IRAPA) for the 4.5 Acre Site outlined sampling and monitoring activities to monitor biosparging activities. The *4.5 Acre Site Biosparge Monitoring Report* (DOE 2000b), presents the data collection activities associated with the biosparging system start-up, analyzes the monitoring results, and makes recommendations for continued operations. This report was issued in July 2000. Subsequently, biosparging activities will be monitored on a quarterly basis during regular quarterly sampling events.

4.0 Data Interpretation

Several time vs. concentration plots were created to evaluate remediation progress and potential plume movement. The entire data set was evaluated and selected wells and contaminants of potential concern were chosen for presentation as time vs. concentration plots. The data visualization is shown in [Figure 5](#) through [Figure 9](#).

4.1 Contaminant Concentration Trends

The time vs. concentration plot that was shown in the data visualization section in the April 2001 report was from well M013. This well was chosen to show potential plume movement toward the north. However, M013 was abandoned in May 2001 because air from the biosparging system was short-circuiting through the well. Therefore, a new location in the same area was chosen to show potential plume movement.

DP32 (deep interval; 26 to 30 ft bls) was chosen due to its contaminant concentration trends and its location near former well M013. As can be seen in Figure 5, vinyl chloride and cis-1,2-DCE concentrations have been increasing each quarter, indicating potential plume movement. It should be noted that a contaminant plume (mainly vinyl chloride) existed in this northern part of the 4.5 Acre Site (in wells M013, 0502, and 0503) until approximately the time the biosparging system began operation in late 1999. Subsequently, contaminants were not detected in this area until the April 2002 sampling event when vinyl chloride was detected in 0502. Therefore, the possibility exists that the contaminants measured in DP32, as well as DP35 and DP31, could be part of an old plume and not represent movement of a new plume into this area.

DP07 (shallow interval; 18 to 22 ft bls) was chosen to show remediation progress. This location is in the central plume area between horizontal wells HW2 and HW3. TCE, cis-1,2-DCE, and vinyl chloride trends are shown in [Figure 6](#). Although concentrations increased initially, subsequent concentrations have decreased. Nearby location DP08 also shows decreasing TCE, DCE, and vinyl chloride concentrations. DP07 and DP08 are located in the center of the eastern plume area, and these decreasing concentration trends indicate that the biosparging generally is effective in this area.

Location DP02, just north of DP07, has shown inconsistent concentration trends for TCE, DCE, and vinyl chloride (i.e. high concentrations one quarter, low concentrations the next quarter, then high concentrations once again the next quarter). Location DP26, located near HW1, has shown similar trends. These inconsistent trends have two potential causes. The direct push ground water

samples are collected in slightly different locations each sampling event, potentially leading to some variation in concentrations. Another potential cause is a “disturbance effect”, wherein contaminants are mobilized by the disturbance created when air is injected into the subsurface. Both of these effects are expected, and the disturbance effect is an integral part of biosparging because it results in contaminants being mobilized so that they are more available for biodegradation.

4.2 Plume Maps

Plume maps were generated for TVOCs (Figure 4), vinyl chloride ([Figure 7](#)), cis-1,2-DCE ([Figure 8](#)), and TCE (Figure 9). The inferred TVOCs plume boundary (i.e., the dashed contour lines) includes all detected concentrations of all analytes. The inferred plume boundaries for the individual compounds are the respective maximum contaminant levels (MCLs) of the compounds. Concentrations that are below the MCL are not included in the plume.

The TCE plume area is relatively small, the cis-1,2-DCE area is larger and extends to the north to DP32, and the VC is relatively large and extends to the north to well 0502.

4.3 Geochemical Parameters

Geochemical parameters measured in all wells/DP locations at the 4.5 Acre Site during April 2002 are listed in Tables 3 and 4. In general, DO values are low (<1 milligrams per liter [mg/L]) and ORP values are negative, indicating anoxic, reducing conditions. However, one would expect higher DO values and positive ORP values due to the fact that air has been injected into the subsurface almost continuously for the last year.

A potential explanation for this paradox may be based on measured ground water elevations. As shown in Figure 3, when the biosparging system is shut down for sampling activities, a hydraulic low forms around the screened intervals of the horizontal wells. Several days following system shutoff, the water that has been “pushed” away from the horizontal wells flows towards the hydraulic low. This water, apparently beyond the influence of the injected air, is at ambient geochemical conditions, which are anoxic and reducing. So by the time the ground water samples are collected approximately 3 to 6 days following biosparging shutdown, this low DO, low ORP water has returned to the area, producing the paradox in geochemical conditions.

To investigate this phenomenon, geochemical parameters will be collected from a subset of wells prior to system shutdown. As this text is being written, this event has just occurred. Preliminary data indicate considerably higher DO values (1.2 to 7.0 mg/L) and slightly higher ORP values. This issue will be discussed in more detail in a subsequent quarterly report, once the data are validated.

Water samples for analysis via the HPC method have been collected quarterly from 10 locations during the DPT sampling, starting in April 2001 (Table 10). HPC measures the number of aerobic bacteria present in the sample. The abundance of aerobic organisms should increase due to the oxygen that is injected into the subsurface, relative to the baseline conditions in April 2001. These data show considerable variation with time, but appear to show a general decreasing trend. This is counter to expectations because the number of aerobic organisms should increase over time as the biosparging system converts subsurface conditions from

anaerobic to aerobic. This effect may also be due to the movement of anaerobic ground water back into the biosparging areas after the systems are shut down.

Samples for field analysis of dissolved iron species have been collected from all the DPT locations since April 2001. The data collected in April 2002 are shown in Table 4, and the oxidized iron as a percentage of the total iron, measured over the last five quarters, is shown in Table 11. Although significant fluctuations in the percentage of oxidized iron are obvious, the percentage of oxidized iron generally was higher in April 2002 relative to the baseline values from April 2001. This indicates that biosparging generally is effective at converting conditions from reducing to oxidizing.

5.0 Tasks to be Performed Next Quarter

The following tasks are scheduled during the next quarterly period (July through September 2002).

- Sampling and analysis of ground water and water level measurements in early July.
- DPT sampling of ground water.
- Routine preventive maintenance activities.

6.0 References

FDEP, not dated. *Corrective Actions for Contamination Site Cases*, <http://www.dep.state.fl.us>

_____, 2001. *Remediation Agreement for the Four and One-Half Acre Site in Largo, Pinellas County, Florida*, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado, January.

U.S. Department of Energy, 2000a. *4.5 Acre Site Biosparge System Integration Plan*, GJO-2000-182-TAR, MAC-PIN 25.5.1.1, prepared by U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado, December.

_____, 2000b. *4.5 Acre Site Biosparge Monitoring Report*, MAC-PIN 25.5.1, prepared by U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado, July.

_____, 2002. *Sampling and Analysis Plan for the Young – Rainey STAR Center*, Draft, GJO-2001-206-TAR, MAC-PIN 2.4-1, prepared by U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado, April.

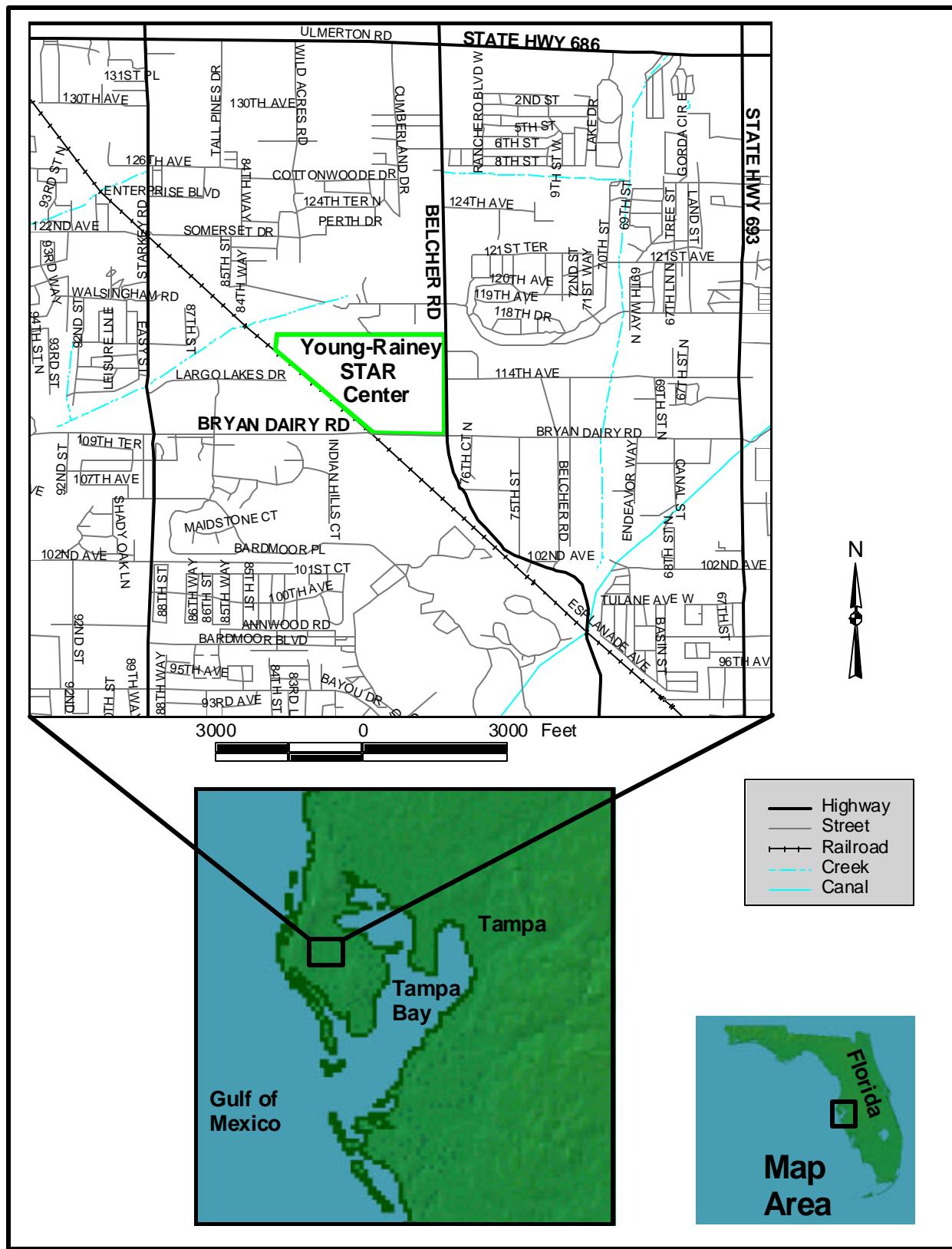


Figure 1. Young - Rainey STAR Center Location

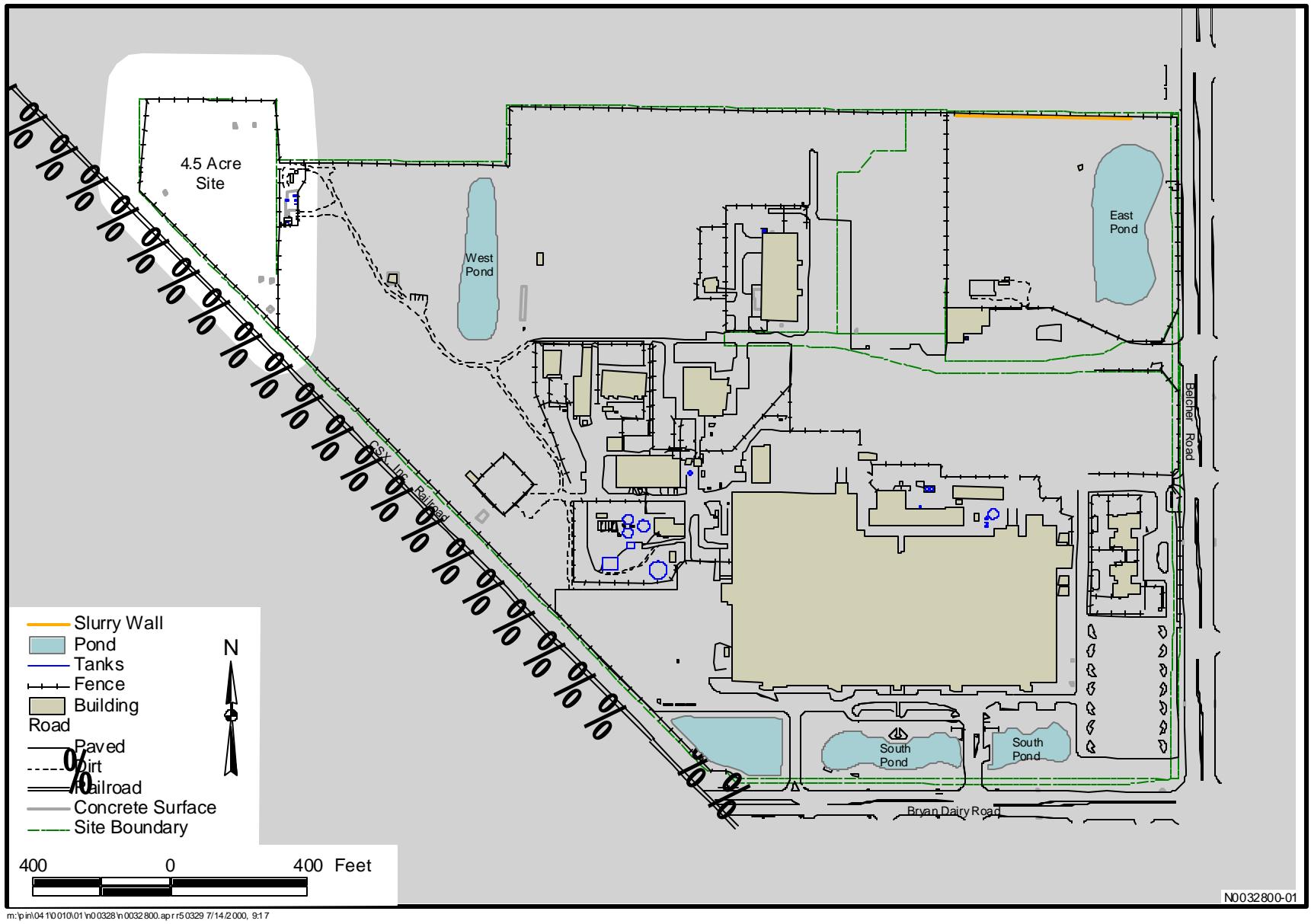


Figure 2. 4.5 Acre Site Location

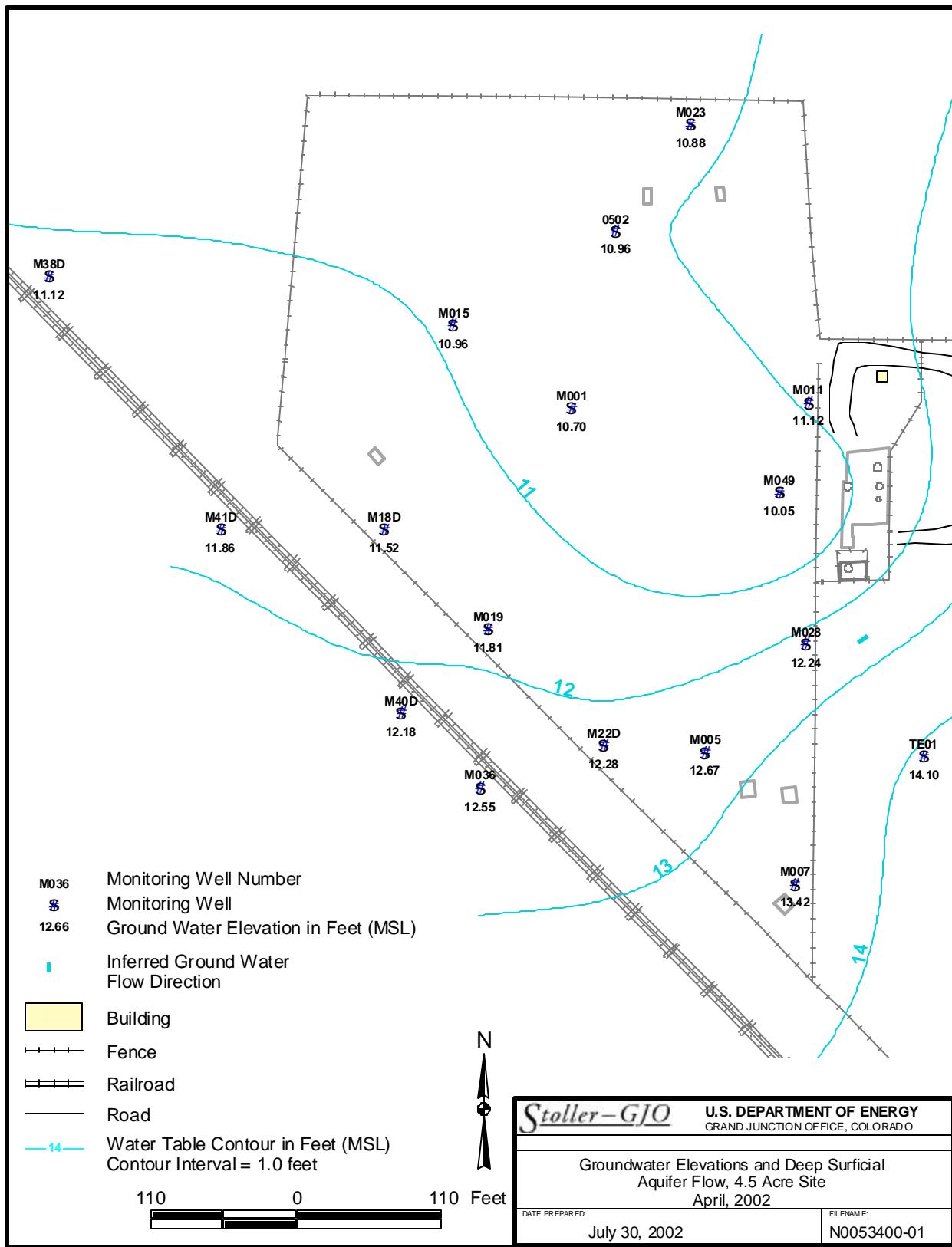


Figure 3. Ground Water Elevations and Deep Surficial Aquifer Flow, 4.5 Acre Site, April 2002

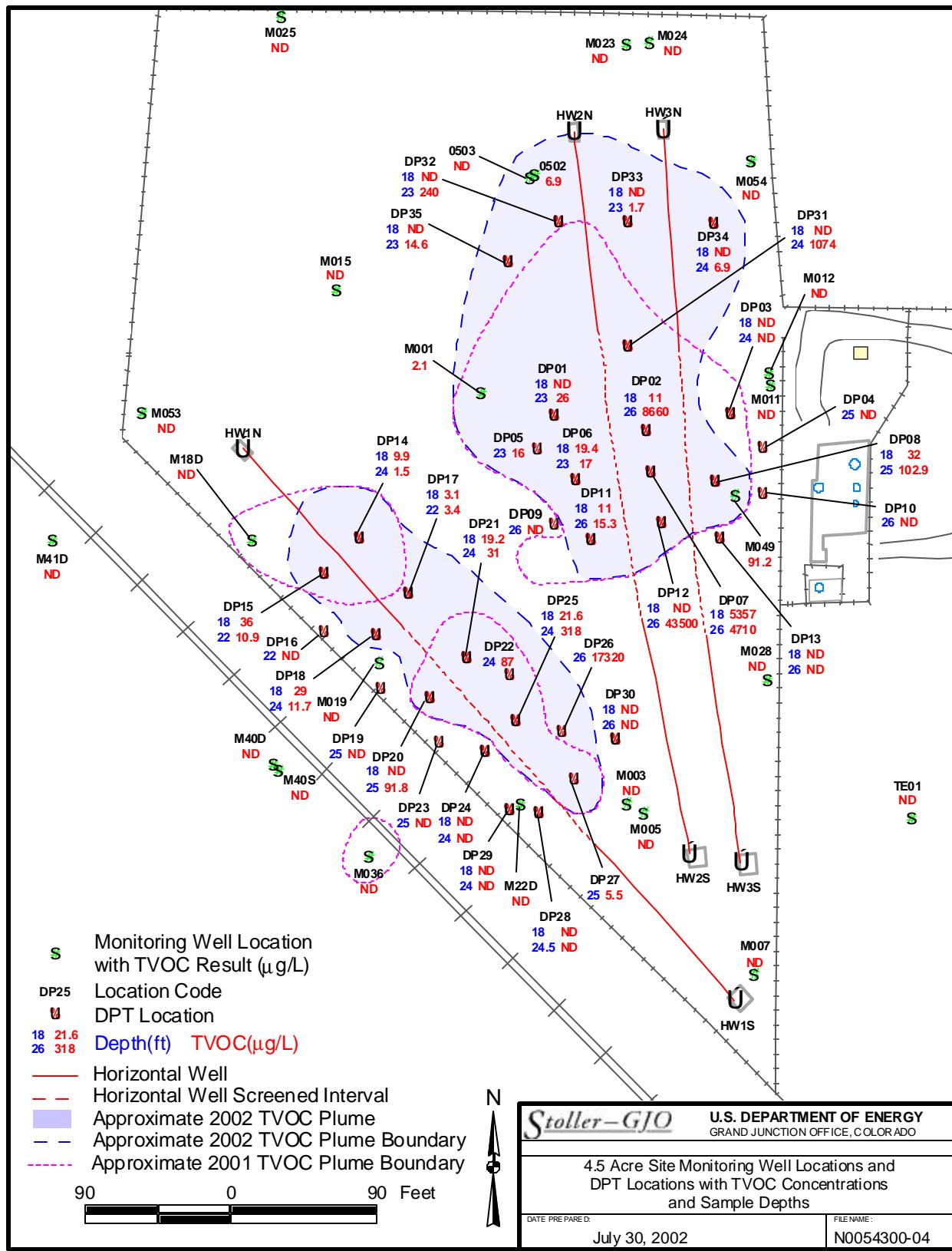


Figure 4. Monitoring Well Locations and DPT Locations with TVOC Concentrations and Sample Depths

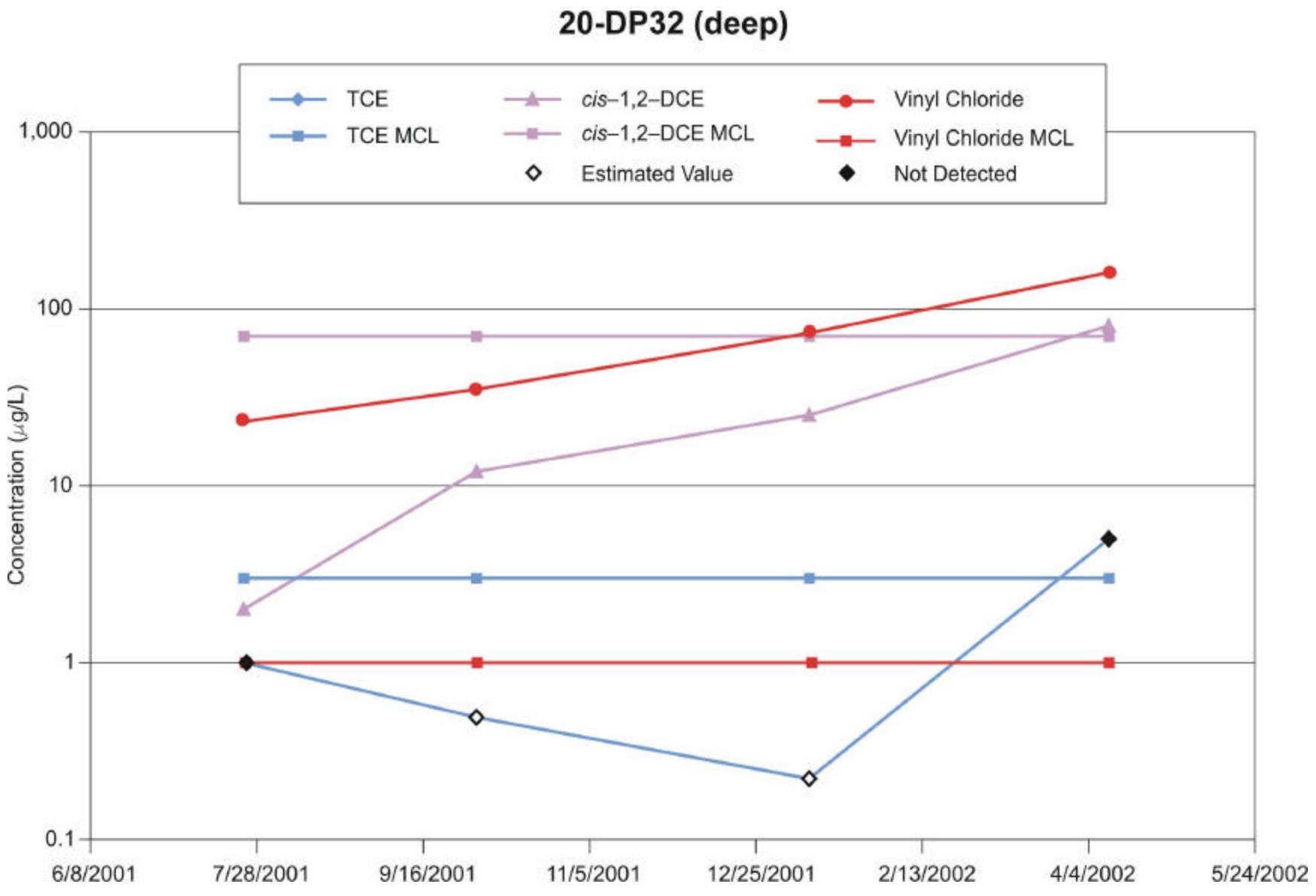


Figure 5. TCE, DCE, and Vinyl Chloride Trends in 20-DP32 (Deep)

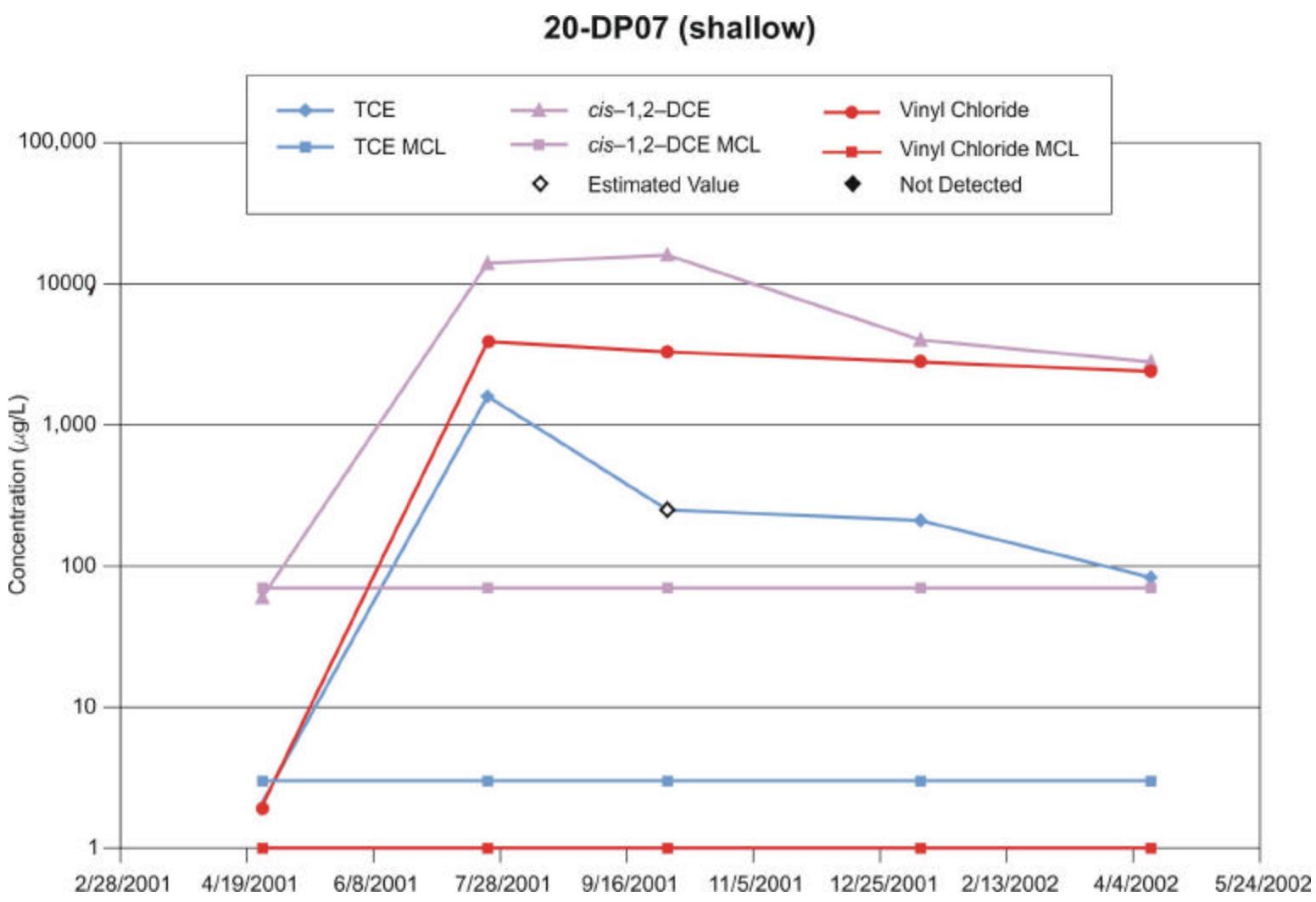


Figure 6. TCE, DCE, and Vinyl Chloride Trends in 20-DP07 (Shallow)

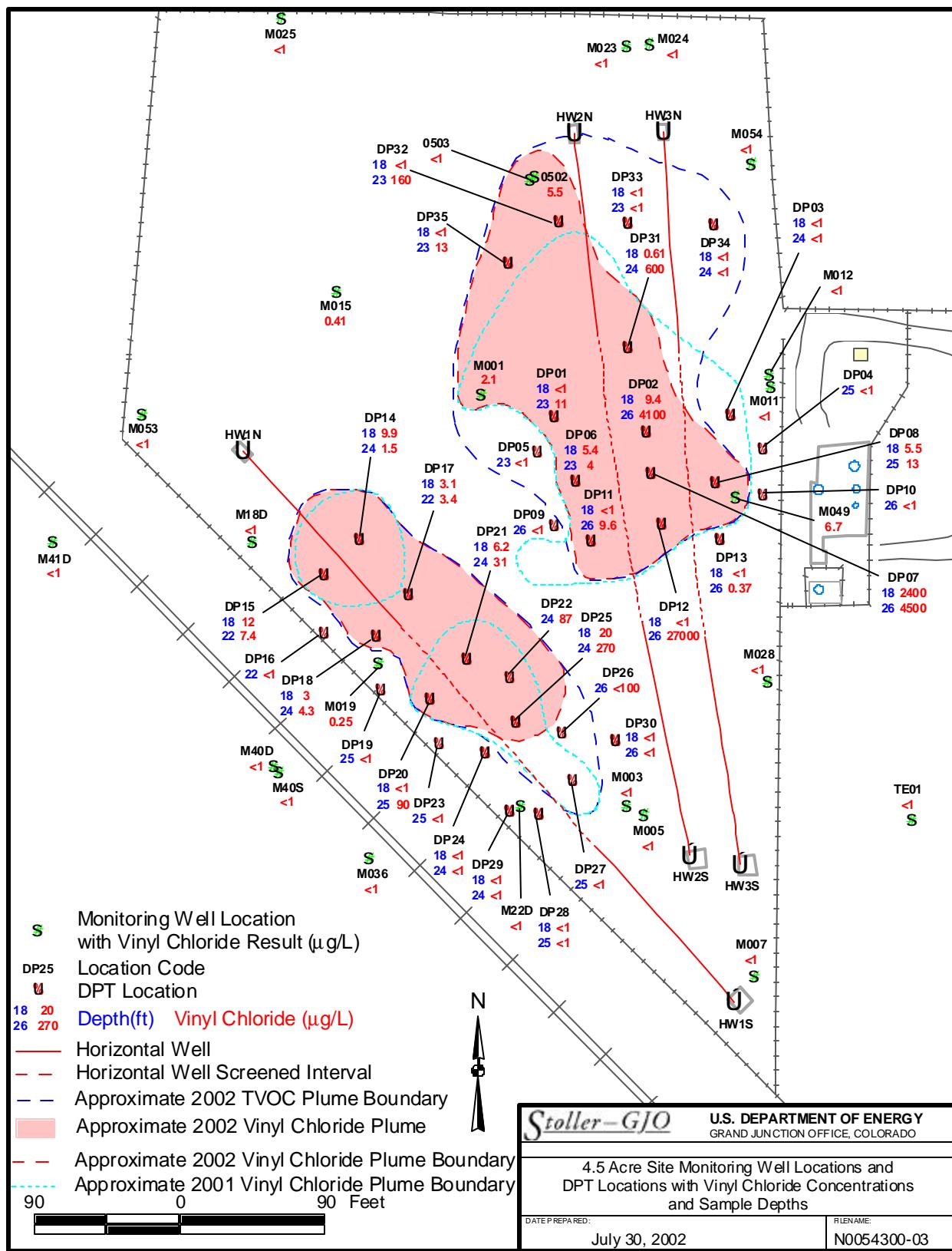


Figure 7. Monitoring Well Locations and DPT Locations with Vinyl Chloride Concentrations and Sample Depths

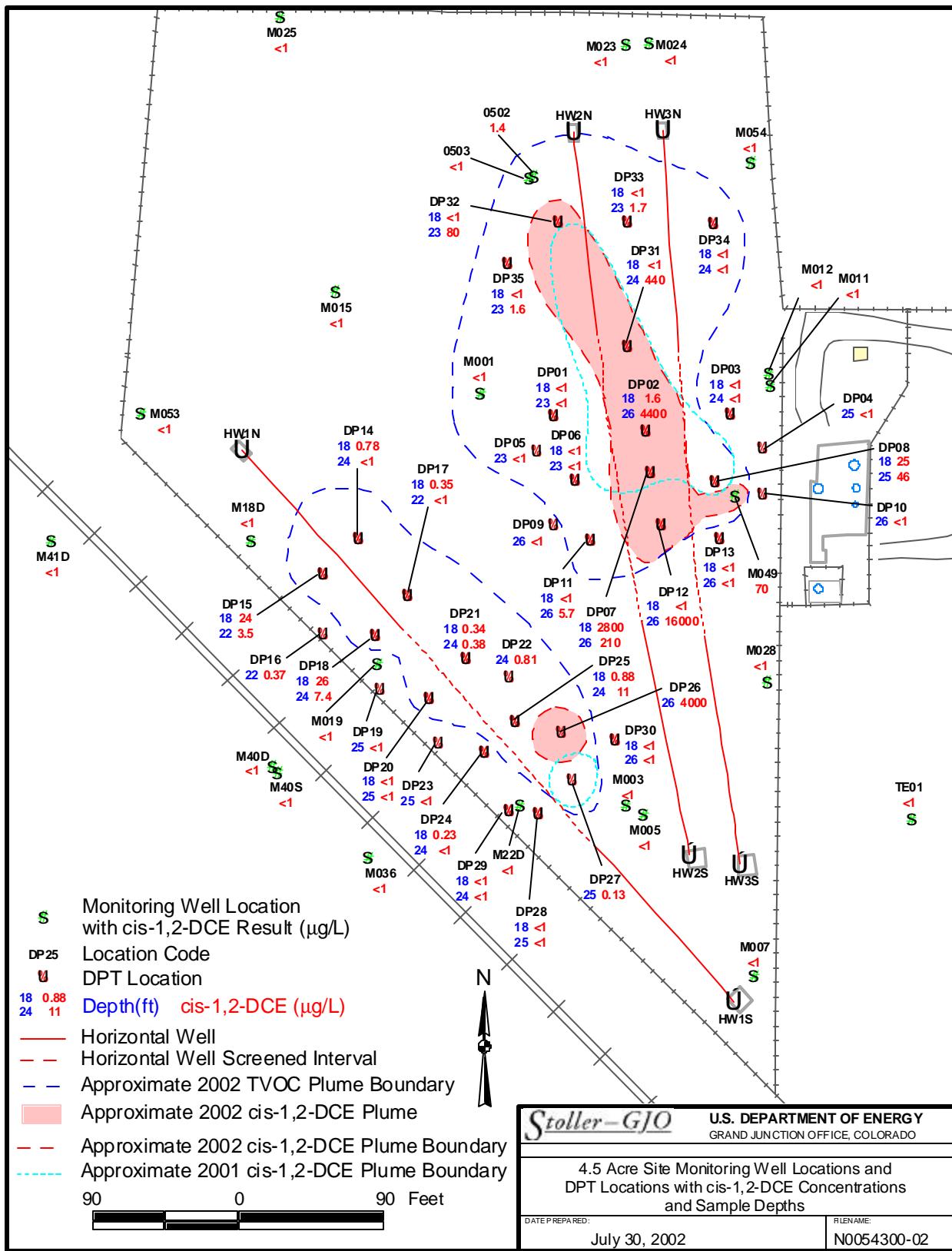


Figure 8. Monitoring Well Locations and DPT Locations with cis-1,2-DCE Concentrations and Sample Depths.

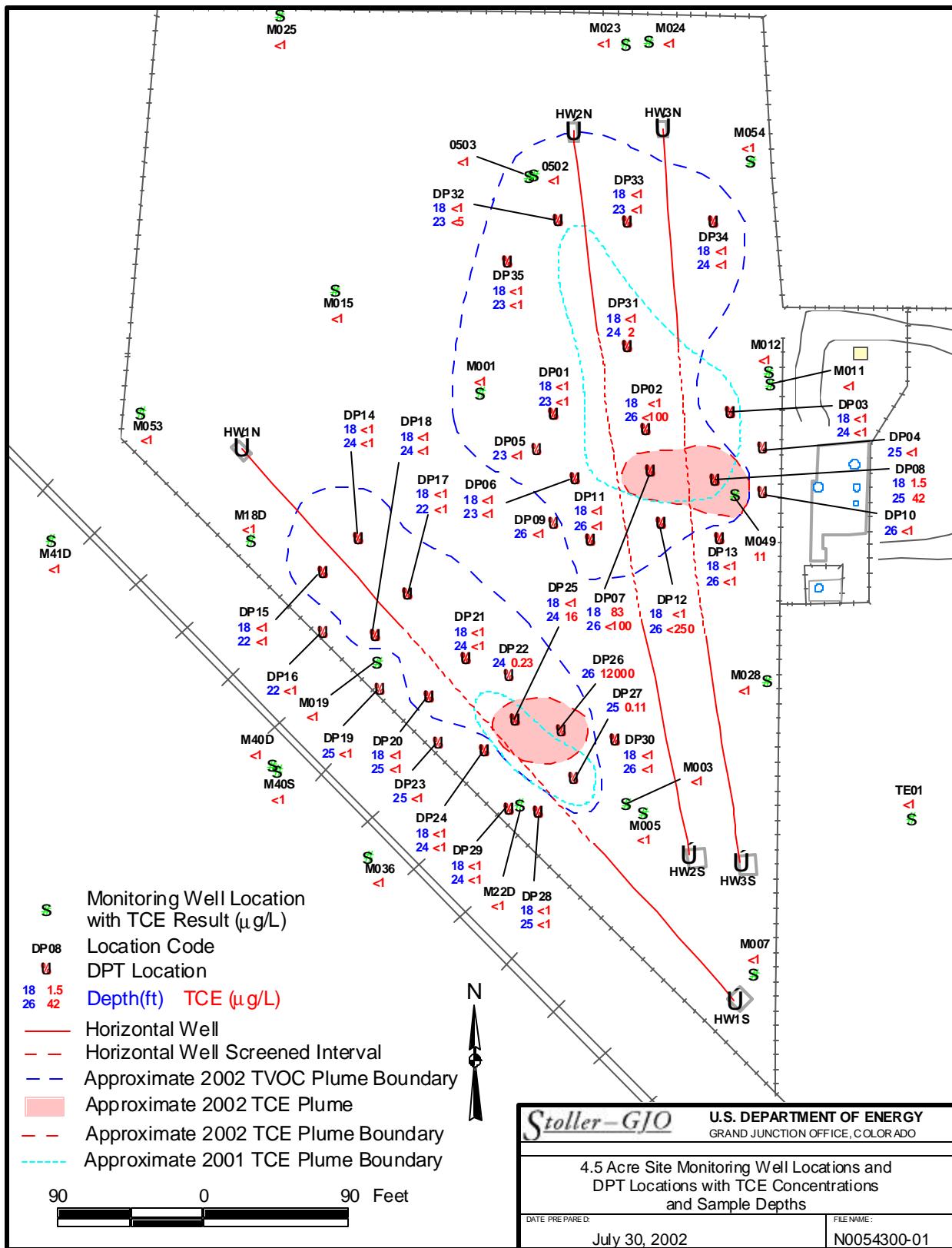


Figure 9. Monitoring Well Locations and DPT Locations with TCE Concentrations and Sample Depths

Table 1. 4.5 Acre Site DPT Location Sample Collection Depths

| Location ID | Sample Depths (ft) |
|-------------------------|---------------------------|
| DP01 | 18 & 23 |
| DP02 | 18 & 26 |
| DP03 | 18 & 24 |
| DP04 | 25 |
| DP05 | 23 |
| DP06 | 18 & 23 |
| DP07 | 18 & 26 |
| DP08 | 18 & 25 |
| DP09 | 26 |
| DP10 | 26 |
| DP11 | 18 & 26 |
| DP12 | 18 & 26 |
| DP13 | 18 & 26 |
| DP14 | 18 & 24 |
| DP15 | 18 & 22 |
| DP16 | 22 |
| DP17 | 18 & 22 |
| DP18 | 18 & 24 |
| DP19 | 25 |
| DP20 | 18 & 25 |
| DP21 | 18 & 24 |
| DP22 | 24 |
| DP23 | 25 |
| DP24 | 18 & 24 |
| DP25 | 18 & 24 |
| DP26 | 26 |
| DP27 | 25 |
| DP28 | 18 & 24.5 |
| DP29 | 18 & 24 |
| DP30 | 18 & 26 |
| DP31 | 18 & 24 |
| DP32 | 18 & 23 |
| DP33 | 18 & 23 |
| DP34 | 18 & 24 |
| DP35 | 18 & 23 |
| Total Number of Samples | 60 |

Table 2. Water-Level Data at the 4.5 Acre Site

| Location | Measurement | | Water Depth From Land Surface (ft) | Ground Water Elevation (ft NGVD) |
|----------|----------------------|-------|------------------------------------|----------------------------------|
| | Date | Time | | |
| PIN20 | 4.5 Acre Site | | | |
| 0502 | 4/8/2002 | 08:58 | 6.44 | 10.96 |
| 0503 | 4/8/2002 | 08:58 | 6.54 | 10.86 |
| M001 | 4/8/2002 | 09:06 | 6.9 | 10.7 |
| M003 | 4/8/2002 | 08:40 | 4.97 | 13.23 |
| M005 | 4/8/2002 | 08:40 | 5.63 | 12.67 |
| M007 | 4/8/2002 | 08:36 | 6.03 | 13.42 |
| M011 | 4/8/2002 | 08:47 | 6.98 | 11.12 |
| M012 | 4/8/2002 | 08:47 | 6.17 | 11.83 |
| M015 | 4/8/2002 | 09:04 | 6.84 | 10.96 |
| M019 | 4/8/2002 | 08:32 | 6.19 | 11.81 |
| M023 | 4/8/2002 | 08:55 | 8.59 | 10.88 |
| M024 | 4/8/2002 | 08:56 | 6.6 | 11.2 |
| M025 | 4/8/2002 | 09:00 | 5.45 | 10.85 |
| M028 | 4/8/2002 | 08:43 | 5.96 | 12.24 |
| M035 | 4/8/2002 | 08:21 | 7.11 | 11.69 |
| M036 | 4/8/2002 | 08:18 | 6.75 | 12.55 |
| M049 | 4/8/2002 | 08:45 | 7.75 | 10.05 |
| M053 | 4/8/2002 | 08:29 | 5.83 | 11.37 |
| M054 | 4/8/2002 | 08:50 | 4.83 | 12.87 |
| M18D | 4/8/2002 | 08:30 | 6.18 | 11.52 |
| M22D | 4/8/2002 | 08:34 | 5.52 | 12.28 |
| M38D | 4/8/2002 | 08:11 | 7.38 | 11.12 |
| M40D | 4/8/2002 | 08:15 | 7.22 | 12.18 |
| M40S | 4/8/2002 | 08:15 | 7.3 | 11.9 |
| M41D | 4/8/2002 | 08:13 | 7.24 | 11.86 |
| TE01 | 4/8/2002 | 09:13 | 4 | 14.1 |

Table 3. Field Measurements of Samples Collected From Wells at the 4.5 Acre Site

| Location | Temperature (°C) | Specific Conductance (µmhos/cm)^a | Turbidity (NTU) | pH | Oxidation Reduction Potential (mV) | Dissolved Oxygen (mg/L) |
|-----------------|-----------------------------|--|----------------------------|-----------|---|------------------------------------|
| PIN20 | 4.5 Acre Site | | | | | |
| 0502 | 25.23 | 865 | 20.8 | 6.64 | -52.6 | 0.64 |
| 0503 | 24.87 | 904 | 73.1 | 6.73 | -25.1 | 0.85 |
| M001 | 24.59 | 673 | 4.4 | 6.61 | -81.2 | 0.88 |
| M003 | 23.67 | 1,192 | 0.7 | 6.49 | 127.8 | 0.73 |
| M005 | 25.48 | 998 | 0.7 | 6.73 | -48.6 | 0.58 |
| M007 | 24.72 | 812 | 4.8 | 6.12 | -9.9 | 0.75 |
| M011 | 23.96 | 786 | 1.1 | 6.6 | -83.3 | 0.63 |
| M012 | 22.61 | 660 | 4.9 | 6.65 | -13 | 1.35 |
| M015 | 24.78 | 641 | 5.2 | 6.66 | -60.7 | 0.62 |
| M019 | 25.18 | 807 | 1.4 | 6.58 | -61 | 0.6 |
| M023 | 24.4 | 916 | 1.7 | 6.82 | -108.4 | 1.21 |
| M024 | 23.9 | 687 | 3.1 | 6.72 | -12.3 | 1.53 |
| M025 | 24.2 | 2,227 | 6.1 | 6.5 | 23.9 | 0.95 |
| M028 | 24.58 | 746 | 2.4 | 6.51 | -76.4 | 0.63 |
| M036 | 23.88 | 741 | 1 | 6.73 | -84.1 | 0.57 |
| M049 | 24.63 | 1,049 | 12.1 | 6.53 | -81.3 | 0.76 |
| M053 | 24.78 | 761 | 60.8 | 6.71 | -83.8 | 1.04 |
| M054 | 24.57 | 997 | 58 | 6.66 | -96.6 | 0.64 |
| M18D | 24.78 | 779 | 2.9 | 6.72 | -78.2 | 0.71 |
| M22D | 24.98 | 790 | 6 | 6.67 | -72 | 0.66 |
| M38D | 23.48 | 770 | 0.8 | 6.85 | 150.3 | 0.92 |
| M40D | 23.79 | 806 | 28.1 | 6.74 | -64.2 | 0.69 |
| M40S | 22.7 | 383 | 26.4 | 6.7 | 124.1 | 2.13 |
| M41D | 23.41 | 1,244 | 15.3 | 6.51 | 94.9 | 0.9 |
| TE01 | 24.4 | 232 | 22.1 | 5.85 | 143.7 | 0.55 |

^atemperature corrected to 25°C

Table 4. Field Measurements of Samples Collected From DPT Locations at the 4.5 Acre Site

| Location | Depth (ft bbls) | Temperature (°C) | Specific Conductance (µmhos/cm) ^a | Turbidity (NTU) | pH | Oxidation Reduction Potential (mV) | Dissolved Oxygen (mg/L) | Field Ferrous Iron (mg/L) | Field Total Iron (mg/L) |
|--------------|--------------------|----------------------|--|--------------------|------|---|-------------------------------|------------------------------------|----------------------------------|
| PIN20 | | 4.5 Acre Site | | | | | | | |
| DP01 | 18 | 24.5 | 645 | 729 | 6.75 | -80 | 0.4 | 0.71 | 0.92 |
| DP01 | 23 | 24.9 | 476 | 2,006 | 6.81 | -73 | 0.4 | 0.3 | 0.61 |
| DP02 | 18 | 24.6 | 1,521 | 430 | 6.41 | -99 | 0.26 | 1.75 | 2.05 |
| DP02 | 26 | 24.9 | 777 | 1,052 | 6.27 | -30 | 0.27 | 0.65 | 0.72 |
| DP03 | 18 | 25 | 1,082 | 504 | 6.52 | -68 | 0.35 | 1.42 | 1.64 |
| DP03 | 24 | 25.2 | 547 | 623 | 6.55 | -68 | 0.28 | 0.5 | 0.66 |
| DP04 | 25 | 25.2 | 607 | 1,129 | 6.47 | -62 | 0.31 | 0.57 | 0.74 |
| DP05 | 23 | — | — | — | — | — | — | 0.67 | 0.75 |
| DP06 | 18 | 25.2 | 965 | 744 | 6.59 | -49 | 0.44 | 1.35 | 1.43 |
| DP06 | 23 | — | — | — | — | — | — | 0.52 | 0.68 |
| DP07 | 18 | 24.5 | 1,060 | 513 | 6.47 | -45 | 0.48 | 1.22 | 1.21 |
| DP07 | 26 | 25.5 | 663 | 454 | 6.62 | -26 | 0.37 | 0.28 | 0.37 |
| DP08 | 18 | 24.3 | 1,360 | 687 | 6.37 | -79 | 0.21 | 2.13 | 2.39 |
| DP08 | 25 | 24.7 | 589 | 675 | 6.62 | -62 | 0.24 | 0.68 | 0.68 |
| DP09 | 26 | 24.95 | — | 575.2 | 6.65 | -66.5 | 0.26 | 0.4 | 0.57 |
| DP10 | 26 | 25.5 | 602 | 2,036 | 6.59 | -24 | 0.33 | 0.14 | 0.13 |
| DP11 | 18 | 25.1 | — | 418 | 6.54 | -80 | 0.21 | 0.79 | 1 |
| DP11 | 26 | 25.7 | — | 900 | 6.58 | -47 | 0.23 | 0.33 | 0.42 |
| DP12 | 18 | 24.2 | 1,019 | 391 | 6.53 | -48 | 0.23 | 1.16 | 1.3 |
| DP12 | 26 | 24.9 | 651 | 582 | 6.57 | -20 | 0.24 | 1.16 | 1.3 |
| DP13 | 18 | 25.2 | 1,365 | 1,833 | 6.28 | -78 | 0.21 | 0.15 | 0.16 |
| DP13 | 26 | 25.7 | 642 | 982 | 6.64 | -36 | 0.39 | 0.22 | 0.24 |
| DP14 | 18 | 24.5 | 770 | 637 | 6.88 | — | 0.27 | 0.45 | 0.65 |
| DP14 | 24 | 24.9 | 1,023 | 2,033 | 6.83 | — | 0.28 | 0.4 | 0.59 |
| DP15 | 18 | 24.4 | 803 | 540 | 6.92 | — | 0.28 | 0.4 | 0.65 |
| DP15 | 22 | 24.8 | 849 | 482 | 6.78 | -84 | 0.26 | 0.43 | 0.6 |
| DP16 | 22 | 25 | 818 | 483.9 | 6.77 | -94.5 | 0.39 | 0.42 | 0.56 |
| DP17 | 18 | 24.8 | 714 | 467 | 6.85 | -97.7 | 0.29 | 0.52 | 0.76 |
| DP17 | 22 | 24.9 | 1,881 | 449 | 6.83 | -37 | 1.87 | 0.41 | 0.56 |
| DP18 | 18 | 24.7 | 908 | 601 | 6.79 | -84 | 0.28 | 0.44 | 0.53 |
| DP18 | 24 | 25.1 | 834 | 582 | 6.89 | -79 | 0.34 | 0.4 | 0.5 |
| DP19 | 25 | 25 | 941 | 842 | 6.74 | -97 | 0.29 | 0.5 | 0.66 |
| DP20 | 18 | 24.9 | 981 | 554 | 6.94 | -74 | 0.36 | 0.29 | 0.42 |
| DP20 | 25 | 25 | 1,081 | 1,015 | 6.86 | -79 | 0.31 | 0.52 | 0.7 |
| DP21 | 18 | 23.6 | 2,004 | 339 | 6.59 | -69 | 0.35 | 1.73 | 2 |
| DP21 | 24 | 24 | 828 | 1,295 | 6.72 | -74 | 0.39 | 0.52 | 0.73 |
| DP22 | 24 | 24.3 | 967 | 454 | 6.72 | -88 | 0.39 | 0.74 | 1 |
| DP23 | 25 | 23.9 | 1,301 | 710 | 6.69 | -69 | 0.64 | 0.73 | 0.85 |
| DP24 | 18 | 24.3 | 2,322 | 459 | 6.45 | -22 | 0.29 | 0.62 | 0.62 |
| DP24 | 24 | 24.3 | 2,390 | 504 | 6.62 | -34 | 2.74 | 0.48 | 0.51 |
| DP25 | 18 | 24.4 | 2,239 | 493 | 6.41 | -45 | 0.32 | 1.32 | 1.49 |
| DP25 | 24 | 24.8 | 1,474 | 1,010 | 6.67 | -82 | 0.54 | 1.03 | 1.4 |

Table 4 (continued). Field Measurements of Samples Collected From DPT Locations at the 4.5 Acre Site

| Location | Depth (ft bsl) | Temperature (°C) | Specific Conductance ($\mu\text{mhos}/\text{cm}$) ^a | Turbidity (NTU) | pH | Oxidation Reduction Potential (mV) | Dissolved Oxygen (mg/L) | Field Ferrous Iron (mg/L) | Field Total Iron (mg/L) |
|----------|----------------|------------------|--|-----------------|------|------------------------------------|-------------------------|---------------------------|-------------------------|
| DP26 | 26 | 25.28 | 993 | 1,087 | 6.65 | -31.1 | 0.26 | 0.11 | 0.22 |
| DP27 | 25 | 25 | 716 | 755 | 6.73 | -78 | 0.41 | 0.33 | 0.45 |
| DP28 | 18 | 24.9 | 1,363 | 458 | 6.61 | -79 | 0.36 | 0.65 | 0.78 |
| DP28 | 24.5 | 25 | — | 1,229 | 6.58 | -77 | 0.41 | 0.42 | 0.59 |
| DP29 | 18 | 24.4 | 847 | 450 | 6.54 | -72 | 0.44 | 0.27 | 0.48 |
| DP29 | 24 | 24.6 | 1,060 | 863 | 6.65 | -88 | 0.26 | 0.35 | 0.52 |
| DP30 | 18 | 25 | 1,391 | 645 | 6.65 | -97 | 0.26 | 0.46 | 0.64 |
| DP30 | 26 | 25.8 | — | 1,959 | 6.64 | -19 | 0.29 | 0.05 | 0.08 |
| DP31 | 18 | 25.7 | 742 | 849 | 6.63 | -78 | 0.45 | 0.87 | 1.1 |
| DP31 | 24 | 25.7 | 786 | 1,335 | 6.44 | -54 | 0.23 | 0.75 | 0.87 |
| DP32 | 18 | 25 | 852 | 683 | 6.72 | -74 | 0.41 | 0.86 | 1 |
| DP32 | 23 | 25.2 | 743 | 994 | 6.52 | -54 | 0.26 | 0.56 | 0.74 |
| DP33 | 18 | 24.8 | 800 | 621 | 6.67 | -74 | 0.33 | 0.88 | 1.05 |
| DP33 | 23 | 25.2 | 815 | 1,213 | 6.64 | -66 | 0.36 | 0.88 | 1 |
| DP34 | 18 | 24.9 | 660 | 648 | 6.56 | -85 | 0.44 | 0.77 | 0.92 |
| DP34 | 24 | 25.1 | 539 | 1,339 | 6.48 | -65 | 0.26 | 0.44 | 0.5 |
| DP35 | 18 | 24.8 | 623 | 500 | 6.84 | -84 | 0.35 | 0.62 | 0.79 |
| DP35 | 23 | 25.2 | 421 | 1,028 | 6.77 | -66 | 0.38 | 0.35 | 0.48 |

^atemperature corrected to 25 °C

— = Not measured

*Table 5. VOCs Concentrations From Wells at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|--------------|--------------|----------------------|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| PIN20 | | 4.5 Acre Site | | | | | | | | |
| 0502 | 4/9/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| 0502 | 10/2/2001 | <1 | <1 | <1 | <1 | 0.4J | <1 | <1 | 1.4J | ND |
| 0502 | 4/9/2002 | <1 | 1.4 | <1 | <1 | 5.5 | <1 | <1 | <5 | 6.9 |
| 0503 | 4/6/2001 | <1 | <1 | <1 | <1 | 0.34J | <1 | <1 | 1.2J | ND ^c |
| 0503 | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.3J | ND |
| 0503 | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M001 | 4/9/2001 | <1 | 0.18J | <1 | <1 | 3.5 | <1 | <1 | <5 | 3.5 ^b |
| M001 | 7/24/2001 | <1 | <1 | <1 | <1 | 1.6 | <1 | <1 | 0.57J | 1.6 |
| M001 | 10/2/2001 | <1 | <1 | <1 | <1 | 8.8 | <1 | <1 | <5 | 8.8 ^b |
| M001 | 1/9/2002 | <1 | 2.4 | 0.17J | <1 | 23 | <1 | <1 | 0.49J | 25.4 ^b |
| M001 | 4/10/2002 | <1 | <1 | <1 | <1 | 2.1 | <1 | <1 | 0.84J | 2.1 |
| M003 | 4/5/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.47J | ND |
| M003 | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.5J | ND |
| M005 | 4/6/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.53J | ND |
| M005 | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.1J | ND |
| M007 | 4/6/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.22J | ND ^{b,c} |
| M007 | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.3J | ND |
| M011 | 4/6/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.45J | ND |
| M011 | 7/23/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.4J | ND ^c |
| M011 | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.49J | ND |
| M011 | 1/8/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.51J | ND |
| M011 | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M012 | 4/6/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.54J | ND |
| M012 | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M012 | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M015 | 4/9/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M015 | 4/11/2002 | <1 | <1 | <1 | <1 | 0.41J | <1 | <1 | <5 | ND |
| M019 | 4/6/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.52J | ND |
| M019 | 7/24/2001 | <1 | <1 | <1 | <1 | 0.35J | <1 | <1 | 0.84J | ND |
| M019 | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 5.2 ^c |
| M019 | 1/9/2002 | <1 | <1 | <1 | <1 | 0.66J | <1 | <1 | 0.51J | ND |
| M019 | 4/10/2002 | <1 | <1 | <1 | <1 | 0.25J | <1 | <1 | 0.6J | ND |
| M023 | 4/9/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M023 | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.52J | ND |
| M023 | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.1J | ND |
| M023 | 1/8/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M023 | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M024 | 4/9/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M024 | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.5J | ND |
| M024 | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.7J | ND |
| M024 | 1/8/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.33J | ND |
| M024 | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M025 | 4/9/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M025 | 4/11/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |

*Table 5 (continued). VOCs Concentrations From Wells at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|----------|--------------|-------|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| M028 | 4/6/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.39J | ND |
| M028 | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.2J | ND |
| M036 | 4/5/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.82J | 3.9 ^b |
| M036 | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M036 | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.67J | ND |
| M036 | 4/11/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M049 | 4/6/2001 | 1.2 | 6.8 | 0.17J | <1 | 1.9 | <1 | <1 | 0.53J | 9.9 |
| M049 | 7/23/2001 | 19 | 67 | 1.1 | 0.32J | 9 | <1 | <1 | 0.38J | 96.1 |
| M049 | 10/3/2001 | 14 | 58 | 2.6 | 0.41J | 4.4 | <1 | <1 | 1.9J | 79 |
| M049 | 1/9/2002 | 15 | 57 | 2.6 | 0.42J | 8.6 | <1 | <1 | 1.6J | 83.2 |
| M049 | 4/9/2002 | 11 | 70 | 3.5 | 0.17J | 6.7 | <1 | <1 | <5 | 91.2 |
| M053 | 7/24/2001 | <1 | <1 | <1 | <1 | 6 | <1 | <1 | 36J | 6 |
| M053 | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M053 | 1/8/2002 | 0.15J | 0.49J | <1 | <1 | 0.5J | <1 | <1 | 0.37J | ND |
| M053 | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M054 | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.48J | ND |
| M054 | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M054 | 1/8/2002 | <1 | 0.15J | <1 | <1 | <1 | <1 | <1 | 0.39J | ND |
| M054 | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M18D | 4/4/2001 | <1 | 4.4 | <1 | <1 | <1 | <1 | <1 | 3.6J | 4.4 |
| M18D | 7/24/2001 | <1 | 1.2 | <1 | <1 | 2.2 | <1 | <1 | 0.4J | 3.4 |
| M18D | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M18D | 1/8/2002 | <1 | 0.36J | <1 | <1 | 1.4 | <1 | <1 | <5 | 1.4 |
| M18D | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M22D | 4/5/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1J | ND |
| M22D | 7/24/2001 | <1 | <1 | <1 | <1 | 0.7J | <1 | <1 | 0.8J | ND |
| M22D | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| M22D | 1/9/2002 | <1 | <1 | <1 | <1 | 0.9J | <1 | <1 | 0.44J | ND |
| M22D | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M38D | 4/6/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.95J | ND |
| M38D | 4/11/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M40D | 4/5/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.7J | ND |
| M40D | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M40D | 4/12/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M40S | 4/5/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.79J | ND |
| M40S | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M40S | 4/11/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| M41D | 4/5/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.3J | ND |
| M41D | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| M41D | 4/11/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| TE01 | 4/10/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| TE01 | 4/11/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |

^a"J" values are not included in the "Total VOCs" value.^bSee the "BTEX Table" for additional analytical results.^cSee the "Additional VOCs Table" for additional analytical results.

ND = Not detected.

J = Estimated value, result is between the reporting limit and the method detection limit.

*Table 6. VOCs Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|--------------|---------|----------------------|-------|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| PIN20 | | 4.5 Acre Site | | | | | | | | | |
| DP01 | Shallow | 7/23/2001 | <1 | <1 | <1 | 0.19J | 0.81J | <1 | <1 | 1.3J | ND |
| DP01 | Shallow | 10/1/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP01 | Shallow | 1/9/2002 | <1 | <1 | <1 | <1 | 2.2 | <1 | <1 | 1.2J | 7.9 ^c |
| DP01 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP01 | Deep | 7/23/2001 | <1 | 7.4 | 0.55J | 0.46J | 67 | <1 | <1 | 1.5J | 89.4 ^b |
| DP01 | Deep | 10/1/2001 | <1 | 23 | 0.3J | <1 | 51 | <1 | <1 | <5 | 83.8 ^b |
| DP01 | Deep | 1/9/2002 | 0.52J | 140 | 5.5 | 0.52J | 170 | <2.5 | <2.5 | <12 | 315.5 ^{b,c} |
| DP01 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | 11 | <1 | <1 | 0.34J | 26 ^b |
| DP02 | Shallow | 7/23/2001 | <1 | 1.5 | <1 | <1 | 4.1 | <1 | <1 | 3.1J | 5.6 ^b |
| DP02 | Shallow | 10/1/2001 | <1 | 5 | <1 | <1 | 5.9 | <1 | <1 | <5 | 10.9 ^b |
| DP02 | Shallow | 1/9/2002 | <1 | 1.1 | <1 | <1 | 6.1 | <1 | <1 | <5 | 7.2 ^b |
| DP02 | Shallow | 4/11/2002 | <1 | 1.6 | <1 | <1 | 9.4 | <1 | <1 | <5 | 11 |
| DP02 | Deep | 7/23/2001 | <10 | 110 | 1.3J | 1.4J | 66 | <10 | <10 | <50 | 176 ^c |
| DP02 | Deep | 10/1/2001 | 0.29J | 14 | 0.19J | <1 | 31 | <1 | <1 | <5 | 77.5 ^{b,c} |
| DP02 | Deep | 1/9/2002 | 2,600 | 20,000 | 800 | 160J | 6,800 | <250 | <250 | <1,200 | 32,700 ^c |
| DP02 | Deep | 4/11/2002 | <100 | 4,400 | 160 | 17J | 4,100 | <100 | <100 | 62J | 8,660 |
| DP03 | Shallow | 7/24/2001 | <1 | <1 | <1 | 0.26J | <1 | <1 | <1 | 4J | ND |
| DP03 | Shallow | 10/1/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP03 | Shallow | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP03 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP03 | Deep | 7/24/2001 | <1 | <1 | <1 | 0.37J | <1 | <1 | <1 | 3.2J | ND |
| DP03 | Deep | 10/1/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP03 | Deep | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP03 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP04 | Deep | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.96J | ND |
| DP04 | Deep | 10/1/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP04 | Deep | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^c |
| DP04 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP05 | Deep | 7/23/2001 | <1 | 0.72J | <1 | 0.26J | 3 | <1 | 0.88J | 1.6J | 3 ^b |
| DP05 | Deep | 10/1/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 19 ^b |
| DP05 | Deep | 1/9/2002 | <1 | 0.22J | <1 | <1 | 5 | <1 | <1 | 0.97J | 16.9 ^{b,c} |
| DP05 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 16 ^b |
| DP06 | Shallow | 7/23/2001 | <1 | <1 | <1 | <1 | 8.2 | <1 | <1 | 0.47J | 22.2 ^b |
| DP06 | Shallow | 10/2/2001 | <1 | <1 | <1 | <1 | 12 | <1 | <1 | <5 | 20.6 ^b |
| DP06 | Shallow | 1/10/2002 | <1 | <1 | <1 | <1 | 11 | <1 | <1 | <5 | 23 ^b |
| DP06 | Shallow | 4/11/2002 | <1 | <1 | <1 | <1 | 5.4 | <1 | <1 | 1.7J | 19.4 ^b |
| DP06 | Deep | 7/23/2001 | <10 | 62 | <10 | 2.2J | 700 | <10 | <10 | 2.9J | 762 ^b |
| DP06 | Deep | 10/2/2001 | <1 | 0.81J | <1 | <1 | 24 | <1 | <1 | <5 | 30.9 ^b |
| DP06 | Deep | 1/10/2002 | <1 | 0.23J | <1 | <1 | 12 | <1 | 0.38J | <5 | 20.7 ^b |
| DP06 | Deep | 4/11/2002 | <1 | <1 | <1 | <1 | 4 | <1 | <1 | 1.9J | 17 ^b |
| DP07 | Shallow | 7/23/2001 | 1,600 | 14,000 | 200J | 380 | 3,900 | <250 | <250 | 75J | 19,880 ^c |
| DP07 | Shallow | 10/2/2001 | <250 | 16,000 | 120J | <250 | 3,300 | <250 | <250 | <1200 | 19,300 |
| DP07 | Shallow | 1/10/2002 | 210 | 4,000 | 110 | 37J | 2,800 | <100 | <100 | <500 | 7,120 |

*Table 6 (continued). VOCs Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|----------|---------|--------------|-------|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| DP07 | Shallow | 4/11/2002 | 83 | 2,800 | 74 | 9.8J | 2,400 | <50 | <50 | 92J | 5,357 |
| DP07 | Deep | 7/23/2001 | 94 | 440 | <50 | 16J | 2,700 | <50 | <50 | 47J | 3,234 ^b |
| DP07 | Deep | 10/2/2001 | <50 | 21J | <50 | <50 | 4,000 | <50 | <50 | <250 | 4,000 |
| DP07 | Deep | 1/10/2002 | <50 | 14J | <50 | <50 | 2,400 | <50 | <50 | <250 | 2,400 |
| DP07 | Deep | 4/11/2002 | <100 | 210 | <100 | <100 | 4,500 | <100 | <100 | 46J | 4,710 |
| DP08 | Shallow | 7/25/2001 | 1.4J | 71 | 0.9J | <2.5 | 14 | <2.5 | <2.5 | <12 | 88.3 ^c |
| DP08 | Shallow | 10/2/2001 | 2.3J | 77 | 0.52J | <2.5 | 9.5 | <2.5 | <2.5 | <12 | 86.5 ^b |
| DP08 | Shallow | 1/10/2002 | 2.6 | 37 | 0.9J | 0.19J | 16 | <1 | 0.15J | <5 | 55.6 ^b |
| DP08 | Shallow | 4/11/2002 | 1.5 | 25 | 0.5J | <1 | 5.5 | <1 | <1 | <5 | 32 ^b |
| DP08 | Deep | 7/25/2001 | 1,000 | 560 | <25 | <25 | <25 | <25 | <25 | <120 | 1,560 |
| DP08 | Deep | 10/2/2001 | 31 | 35 | 0.21J | <1 | 6.9 | <1 | <1 | <5 | 72.9 ^b |
| DP08 | Deep | 1/10/2002 | 2 | 1.4 | <1 | <1 | 11 | <1 | <1 | <5 | 14.4 |
| DP08 | Deep | 4/11/2002 | 42 | 46 | 1.9 | 0.23J | 13 | <1 | <1 | 0.54J | 102.9 |
| DP09 | Deep | 7/25/2001 | <1 | <1 | <1 | <1 | <1 | <1 | 0.56J | <5 | ND ^b |
| DP09 | Deep | 10/1/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP09 | Deep | 1/8/2002 | <1 | <1 | <1 | <1 | 0.42J | <1 | <1 | 2.3J | ND |
| DP09 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | 0.45J | <5 | ND ^b |
| DP10 | Deep | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.96J | ND |
| DP10 | Deep | 10/1/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP10 | Deep | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP10 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP11 | Shallow | 7/25/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 10 ^b |
| DP11 | Shallow | 10/2/2001 | <1 | 0.64J | <1 | <1 | 1.4 | <1 | <1 | 0.79J | 9.4 ^b |
| DP11 | Shallow | 1/8/2002 | <1 | 0.55J | <1 | <1 | 1.4 | <1 | <1 | 2.6J | 11.1 ^b |
| DP11 | Shallow | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.72J | 11 ^b |
| DP11 | Deep | 7/25/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 11.6 ^{b,c} |
| DP11 | Deep | 10/2/2001 | <1 | <1 | <1 | <1 | 2.4 | <1 | <1 | 0.7J | 2.4 ^{b,c} |
| DP11 | Deep | 1/8/2002 | <1 | <1 | <1 | <1 | 3.1 | <1 | <1 | 1.3J | 8.9 ^{b,c} |
| DP11 | Deep | 4/9/2002 | <1 | 5.7 | <1 | <1 | 9.6 | <1 | 0.61J | 0.82J | 15.3 ^b |
| DP12 | Shallow | 7/24/2001 | 0.13J | 0.48J | <1 | <1 | <1 | <1 | <1 | 0.6J | 1.8 ^{b,c} |
| DP12 | Shallow | 10/2/2001 | 0.46J | 1.6 | <1 | <1 | 4.2 | <1 | <1 | 0.81J | 5.8 |
| DP12 | Shallow | 1/9/2002 | <1 | <1 | <1 | <1 | 4.6 | <1 | <1 | <5 | 4.6 ^b |
| DP12 | Shallow | 4/11/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP12 | Deep | 7/24/2001 | <10 | <10 | <10 | <10 | 760 | <10 | <10 | <50 | 771 ^b |
| DP12 | Deep | 10/2/2001 | <5 | 3.4J | <5 | <5 | 390 | <5 | <5 | 3.5J | 390 ^b |
| DP12 | Deep | 1/9/2002 | <5 | <5 | <5 | <5 | 100 | <5 | <5 | <25 | 100 |
| DP12 | Deep | 4/11/2002 | <250 | 16,000 | 81J | <250 | 27,000 | <250 | <250 | 57J | 43,500 ^b |
| DP13 | Shallow | 7/24/2001 | <1 | <1 | <1 | <1 | 1.7 | <1 | <1 | 0.98J | 3.6 ^c |
| DP13 | Shallow | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | ND |
| DP13 | Shallow | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP13 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP13 | Deep | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.73J | ND |
| DP13 | Deep | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.48J | ND |
| DP13 | Deep | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP13 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | 0.37J | <1 | <1 | <5 | ND |

*Table 6 (continued). VOCs Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|----------|---------|--------------|-------|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| DP14 | Shallow | 7/25/2001 | <1 | 1.2 | <1 | <1 | 12 | <1 | <1 | 0.39J | 13.2 ^b |
| DP14 | Shallow | 10/3/2001 | <1 | 2 | <1 | <1 | 8.5 | <1 | <1 | 0.89J | 10.5 ^b |
| DP14 | Shallow | 1/8/2002 | <1 | 2 | <1 | <1 | 14 | <1 | <1 | 1.2J | 16 ^b |
| DP14 | Shallow | 4/8/2002 | <1 | 0.78J | <1 | <1 | 9.9 | <1 | <1 | 0.64J | 9.9 ^b |
| DP14 | Deep | 7/25/2001 | <1 | <1 | <1 | <1 | 6.8 | <1 | <1 | 0.53J | 6.8 ^b |
| DP14 | Deep | 10/3/2001 | <1 | <1 | <1 | <1 | 2.3 | <1 | <1 | 0.52J | 2.3 |
| DP14 | Deep | 1/8/2002 | <1 | <1 | <1 | <1 | 4.7 | <1 | <1 | <5 | 4.7 ^b |
| DP14 | Deep | 4/8/2002 | <1 | <1 | <1 | <1 | 1.5 | <1 | <1 | 0.69J | 1.5 ^b |
| DP15 | Shallow | 7/25/2001 | <1 | 34 | 1.5 | <1 | 15 | <1 | <1 | 0.91J | 50.5 ^b |
| DP15 | Shallow | 10/3/2001 | <1 | 21 | 1 | 0.19J | 8.8 | <1 | <1 | 1.6J | 30.8 ^b |
| DP15 | Shallow | 1/8/2002 | <1 | 31 | 1 | 0.24J | 16 | <1 | <1 | 1.2J | 48 ^b |
| DP15 | Shallow | 4/8/2002 | <1 | 24 | 0.58J | <1 | 12 | <1 | <1 | 0.78J | 36 ^b |
| DP15 | Deep | 7/25/2001 | <1 | 2.4 | <1 | <1 | 6.5 | <1 | <1 | <5 | 8.9 ^b |
| DP15 | Deep | 10/3/2001 | <1 | 2.5 | <1 | <1 | 6.4 | <1 | <1 | 1.2J | 8.9 |
| DP15 | Deep | 1/8/2002 | <1 | 2.1 | <1 | <1 | 8.2 | <1 | <1 | 1.1J | 10.3 |
| DP15 | Deep | 4/8/2002 | <1 | 3.5 | <1 | <1 | 7.4 | <1 | <1 | 0.66J | 10.9 |
| DP16 | Deep | 7/25/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP16 | Deep | 10/3/2001 | <1 | 1.5 | <1 | <1 | 0.34J | <1 | <1 | 0.75J | 1.5 |
| DP16 | Deep | 1/8/2002 | <1 | 12 | 0.32J | <1 | 2.6 | <1 | <1 | 1.4J | 14.6 |
| DP16 | Deep | 4/8/2002 | <1 | 0.37J | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP17 | Shallow | 7/25/2001 | <1 | <1 | <1 | <1 | 4.6 | <1 | <1 | <5 | 4.6 ^b |
| DP17 | Shallow | 10/3/2001 | <1 | 0.12J | <1 | <1 | 1.8 | <1 | <1 | 0.65J | 1.8 ^b |
| DP17 | Shallow | 1/8/2002 | <1 | 0.24J | <1 | <1 | 2.8 | <1 | <1 | 1.7J | 2.8 ^b |
| DP17 | Shallow | 4/8/2002 | <1 | 0.35J | <1 | <1 | 3.1 | <1 | <1 | 0.31J | 3.1 ^b |
| DP17 | Deep | 7/25/2001 | <1 | <1 | <1 | <1 | 10 | <1 | <1 | <5 | 10 ^b |
| DP17 | Deep | 10/3/2001 | <1 | 0.54J | <1 | <1 | 5 | <1 | <1 | 1J | 5 ^b |
| DP17 | Deep | 1/8/2002 | <1 | <1 | <1 | <1 | 3 | <1 | <1 | 2.3J | 3 ^b |
| DP17 | Deep | 4/8/2002 | <1 | <1 | <1 | <1 | 3.4 | <1 | <1 | <5 | 3.4 ^b |
| DP18 | Shallow | 7/25/2001 | <1 | 29 | <1 | <1 | 5.1 | <1 | <1 | <5 | 34.1 |
| DP18 | Shallow | 10/3/2001 | 0.15J | 21 | 0.94J | 0.19J | 2.8 | <1 | <1 | 1.3J | 23.8 |
| DP18 | Shallow | 1/8/2002 | <1 | 20 | 0.94J | <1 | 4.2 | <1 | <1 | 0.46J | 24.2 |
| DP18 | Shallow | 4/8/2002 | <1 | 26 | 0.27J | <1 | 3 | <1 | <1 | 0.36J | 29 |
| DP18 | Deep | 7/25/2001 | <1 | 1.3 | <1 | <1 | 4.3 | <1 | <1 | <5 | 5.6 |
| DP18 | Deep | 10/3/2001 | <1 | 4.3 | 0.14J | <1 | 4.1 | <1 | <1 | 0.72J | 8.4 |
| DP18 | Deep | 1/8/2002 | <1 | 1.1 | <1 | <1 | 4.8 | <1 | <1 | 0.33J | 5.9 |
| DP18 | Deep | 4/8/2002 | <1 | 7.4 | <1 | <1 | 4.3 | <1 | <1 | 0.49J | 11.7 |
| DP19 | Deep | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP19 | Deep | 10/3/2001 | <1 | <1 | <1 | <1 | 0.2J | <1 | <1 | 0.54J | ND |
| DP19 | Deep | 1/8/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.88J | ND |
| DP19 | Deep | 4/8/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.48J | ND |
| DP20 | Shallow | 7/26/2001 | <1 | <1 | 0.25J | <1 | <1 | <1 | <1 | <5 | ND |
| DP20 | Shallow | 10/3/2001 | <1 | 0.35J | 0.41J | <1 | 0.98J | <1 | <1 | 0.55J | ND |
| DP20 | Shallow | 1/8/2002 | <1 | <1 | 0.32J | <1 | <1 | <1 | <1 | <5 | ND |
| DP20 | Shallow | 4/8/2002 | <1 | <1 | 0.24J | <1 | <1 | <1 | <1 | 0.42J | ND |

*Table 6 (continued). VOCs Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|----------|---------|--------------|--------|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| DP20 | Deep | 7/26/2001 | <1 | <1 | 2.1 | <1 | 39 | <1 | 0.45J | 0.36J | 41.1 |
| DP20 | Deep | 10/3/2001 | <1 | 0.36J | 0.53J | <1 | 1.1 | <1 | <1 | 1J | 1.1 |
| DP20 | Deep | 1/8/2002 | <1 | <1 | 0.27J | <1 | 39 | <1 | <1 | 0.6J | 39 |
| DP20 | Deep | 4/8/2002 | <1 | <1 | 1.8 | <1 | 90 | <1 | <1 | 0.48J | 91.8 ^c |
| DP21 | Shallow | 7/26/2001 | <1 | 5.3 | 21 | <1 | 11 | <1 | <1 | 0.42J | 37.3 ^{b,c} |
| DP21 | Shallow | 10/3/2001 | <1 | <1 | 9.6 | <1 | 7.9 | <1 | <1 | 0.55J | 17.5 |
| DP21 | Shallow | 1/8/2002 | 0.42J | 0.89J | 9.4 | <1 | 13 | <1 | <1 | 0.59J | 22.4 |
| DP21 | Shallow | 4/9/2002 | <1 | 0.34J | 13 | <1 | 6.2 | <1 | <1 | <5 | 19.2 |
| DP21 | Deep | 7/26/2001 | <1 | <1 | 1.2 | <1 | 45 | <1 | <1 | 0.36J | 49.1 ^b |
| DP21 | Deep | 10/3/2001 | <1 | <1 | <1 | <1 | 41 | <1 | <1 | 0.45J | 41 ^b |
| DP21 | Deep | 1/8/2002 | 0.3J | 0.41J | 0.27J | <1 | 34 | <1 | <1 | <5 | 34 ^b |
| DP21 | Deep | 4/9/2002 | <1 | 0.38J | 0.44J | <1 | 31 | <1 | <1 | <5 | 31 ^b |
| DP22 | Deep | 7/26/2001 | 1J | 1.7J | 1.1J | <2.5 | 77 | <2.5 | <2.5 | <12 | 77 ^b |
| DP22 | Deep | 10/4/2001 | <2.5 | <2.5 | <2.5 | <2.5 | 110 | <2.5 | <2.5 | 1.8J | 110 ^b |
| DP22 | Deep | 1/7/2002 | 0.71J | 0.95J | 1.2 | <1 | 85 | <1 | 0.89J | <5 | 87.6 ^b |
| DP22 | Deep | 4/9/2002 | 0.23J | 0.81J | 1.2J | <2.5 | 87 | <2.5 | <2.5 | <12 | 87 ^b |
| DP23 | Deep | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 1.1 ^{b,c} |
| DP23 | Deep | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 1.1 ^b |
| DP23 | Deep | 1/7/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.68J | ND ^{b,c} |
| DP23 | Deep | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP24 | Shallow | 7/25/2001 | <1 | <1 | <1 | <1 | 2.1 | <1 | <1 | 0.39J | 3.5 ^c |
| DP24 | Shallow | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP24 | Shallow | 1/8/2002 | <1 | 0.24J | <1 | <1 | <1 | <1 | <1 | 0.48J | ND |
| DP24 | Shallow | 4/9/2002 | <1 | 0.23J | <1 | <1 | <1 | <1 | <1 | 0.34J | ND |
| DP24 | Deep | 7/25/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP24 | Deep | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP24 | Deep | 1/8/2002 | <1 | <1 | <1 | <1 | 5.3 | <1 | <1 | 0.83J | 5.3 ^b |
| DP24 | Deep | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.49J | ND ^b |
| DP25 | Shallow | 7/25/2001 | 0.18J | 0.63J | 3.3 | <1 | 10 | <1 | <1 | <5 | 13.3 |
| DP25 | Shallow | 10/4/2001 | <1 | <1 | 1 | <1 | 11 | <1 | <1 | <5 | 12 |
| DP25 | Shallow | 1/8/2002 | 0.49J | 1 | 2.9 | <1 | 31 | <1 | <1 | 0.39J | 34.9 |
| DP25 | Shallow | 4/9/2002 | <1 | 0.88J | 1.6 | <1 | 20 | <1 | <1 | 0.5J | 21.6 |
| DP25 | Deep | 7/25/2001 | 120 | 28 | 56 | <5 | 160 | <5 | <5 | <25 | 364 |
| DP25 | Deep | 10/4/2001 | 0.86J | <2.5 | 1.7J | <2.5 | 74 | <2.5 | <2.5 | <12 | 74 |
| DP25 | Deep | 1/8/2002 | 90 | 34 | 42 | 2J | 160 | <2.5 | <2.5 | 2.2J | 326 |
| DP25 | Deep | 4/9/2002 | 16 | 11 | 21 | <2.5 | 270 | <2.5 | <2.5 | 1.2J | 318 |
| DP26 | Deep | 7/26/2001 | 310 | 92 | 36 | <10 | 49 | <10 | <10 | <50 | 487 ^b |
| DP26 | Deep | 10/4/2001 | 5,900 | 3,000 | 1,300 | 27J | 310 | <100 | <100 | <500 | 10,510 |
| DP26 | Deep | 1/7/2002 | 130 | 52 | 37 | 2.8 | 100 | <2.5 | <2.5 | <12 | 321.8 ^c |
| DP26 | Deep | 4/9/2002 | 12,000 | 4,000 | 1,200 | 120 | <100 | <100 | <100 | <500 | 17,320 |
| DP27 | Deep | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 6.8 ^b |
| DP27 | Deep | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 1 ^{b,c} |
| DP27 | Deep | 1/7/2002 | 0.25J | 0.22J | <1 | <1 | <1 | <1 | <1 | <5 | 1 ^b |
| DP27 | Deep | 4/9/2002 | 0.11J | 0.13J | <1 | <1 | <1 | <1 | <1 | 0.67J | 5.5 ^b |
| DP28 | Shallow | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 11.3 ^b |

*Table 6 (continued). VOCs Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|----------|---------|--------------|-------|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| DP28 | Shallow | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP28 | Shallow | 1/7/2002 | 0.11J | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP28 | Shallow | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP28 | Deep | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | 2.3 ^b |
| DP28 | Deep | 10/4/2001 | 0.85J | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP28 | Deep | 1/7/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP28 | Deep | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.37J | ND |
| DP29 | Shallow | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP29 | Shallow | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP29 | Shallow | 1/7/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP29 | Shallow | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP29 | Deep | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP29 | Deep | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP29 | Deep | 1/7/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP29 | Deep | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.46J | ND |
| DP30 | Shallow | 1/7/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP30 | Shallow | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.35J | ND |
| DP30 | Deep | 7/26/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP30 | Deep | 10/4/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP30 | Deep | 1/7/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP30 | Deep | 4/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.37J | ND |
| DP31 | Shallow | 7/24/2001 | <1 | 0.28J | <1 | <1 | <1 | <1 | <1 | 0.72J | ND ^b |
| DP31 | Shallow | 10/2/2001 | <1 | 0.78J | <1 | <1 | 3.3 | <1 | <1 | 0.71J | 3.3 ^{b,c} |
| DP31 | Shallow | 1/9/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND ^b |
| DP31 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | 0.61J | <1 | <1 | <5 | ND |
| DP31 | Deep | 7/24/2001 | 1.8J | 430 | 8.9J | 3.7J | 210 | <10 | <10 | <50 | 640 ^c |
| DP31 | Deep | 10/2/2001 | <5 | 260 | 8.5 | 2.9J | 150 | <5 | <5 | 2.7J | 418.5 ^c |
| DP31 | Deep | 1/9/2002 | <2.5 | 96 | 3.3 | 0.69J | 140 | <2.5 | <2.5 | <12 | 239.3 ^c |
| DP31 | Deep | 4/10/2002 | 2J | 440 | 34 | 8.9J | 600 | <10 | <10 | <50 | 1,074 |
| DP32 | Shallow | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.94J | ND |
| DP32 | Shallow | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 2.9J | ND |
| DP32 | Shallow | 1/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP32 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP32 | Deep | 7/24/2001 | <1 | 2 | <1 | <1 | 23 | <1 | <1 | 1.8J | 25 |
| DP32 | Deep | 10/2/2001 | 0.49J | 12 | 0.38J | <1 | 35 | <1 | <1 | 2.6J | 47 ^c |
| DP32 | Deep | 1/10/2002 | 0.22J | 25 | 0.4J | 0.28J | 73 | <1 | <1 | <5 | 98 ^b |
| DP32 | Deep | 4/10/2002 | <5 | 80 | <5 | <5 | 160 | <5 | <5 | <25 | 240 |
| DP33 | Shallow | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP33 | Shallow | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 2.8J | ND |
| DP33 | Shallow | 1/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP33 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP33 | Deep | 7/24/2001 | <1 | 6.9 | <1 | <1 | 4.4 | <1 | <1 | <5 | 11.3 ^b |
| DP33 | Deep | 10/3/2001 | 0.11J | 8.8 | <1 | <1 | 7.9 | <1 | <1 | 3.1J | 16.7 |
| DP33 | Deep | 1/10/2002 | <1 | 2.2 | <1 | <1 | 4.4 | <1 | <1 | <5 | 6.6 ^b |

*Table 6 (continued). VOCs Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | 1,1-DCA | Chloroethane | Methylene chloride | Total VOCs ^a |
|----------|---------|--------------|-----|-------------|---------------|---------|----------------|---------|--------------|--------------------|-------------------------|
| DP33 | Deep | 4/10/2002 | <1 | 1.7 | <1 | <1 | <1 | <1 | <1 | <5 | 1.7 |
| DP34 | Shallow | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP34 | Shallow | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.63J | ND |
| DP34 | Shallow | 1/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP34 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP34 | Deep | 7/24/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP34 | Deep | 10/3/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.57J | ND |
| DP34 | Deep | 1/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP34 | Deep | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 6.9 | 6.9 |
| DP35 | Shallow | 7/24/2001 | <1 | 0.3J | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP35 | Shallow | 10/2/2001 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.38J | ND |
| DP35 | Shallow | 1/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP35 | Shallow | 4/10/2002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | ND |
| DP35 | Deep | 7/24/2001 | <1 | 0.14J | <1 | <1 | 0.92J | <1 | <1 | 0.76J | ND ^b |
| DP35 | Deep | 10/2/2001 | <1 | <1 | <1 | <1 | 0.41J | <1 | <1 | 0.63J | ND |
| DP35 | Deep | 1/10/2002 | <1 | <1 | <1 | <1 | 2.7 | <1 | <1 | <5 | 2.7 ^b |
| DP35 | Deep | 4/10/2002 | <1 | 1.6 | <1 | <1 | 13 | <1 | <1 | <5 | 14.6 ^b |

^a"J" values are not included in the "Total VOCs" value.

^bSee the "BTEX Table" for additional analytical results.

^cSee the "Additional VOCs Table" for additional analytical results.

ND = Not detected.

J = Estimated value, result is between the reporting limit and the method detection limit.

*Table 7. BTEX Compounds Concentrations From Wells at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Date Sampled | Benzene | Toluene | Ethylbenzene | Total Xylenes(a) | Total BTEX(b) |
|--------------|--------------|----------------------|---------|--------------|------------------|---------------|
| PIN20 | | 4.5 Acre Site | | | | |
| 0502 | 4/9/2001 | <1 | <1 | <1 | ND | ND |
| 0502 | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| 0502 | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| 0503 | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| 0503 | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| 0503 | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| M001 | 4/9/2001 | <1 | 0.19J | <1 | ND | ND |
| M001 | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M001 | 10/2/2001 | 0.16J | <1 | <1 | ND | ND |
| M001 | 1/9/2002 | 0.34J | <1 | <1 | ND | ND |
| M001 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M003 | 4/5/2001 | <1 | <1 | <1 | ND | ND |
| M003 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M005 | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| M005 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M007 | 4/6/2001 | <1 | 0.51J | <1 | ND | ND |
| M007 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M011 | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| M011 | 7/23/2001 | <1 | <1 | <1 | ND | ND |
| M011 | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M011 | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| M011 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M012 | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| M012 | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M012 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M015 | 4/9/2001 | <1 | <1 | <1 | ND | ND |
| M015 | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| M019 | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| M019 | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M019 | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| M019 | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| M019 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M023 | 4/9/2001 | <1 | <1 | <1 | ND | ND |
| M023 | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M023 | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M023 | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| M023 | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| M024 | 4/9/2001 | <1 | <1 | <1 | ND | ND |
| M024 | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M024 | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M024 | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| M024 | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| M025 | 4/9/2001 | <1 | <1 | <1 | ND | ND |

*Table 7 (continued). BTEX Compounds Concentrations From Wells at the 4.5 Acre Site
(reported in micrograms per liter)*

| | | | | | | |
|------|-----------|----|-----|----|-------|-----|
| M025 | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| M028 | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| M028 | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M036 | 4/5/2001 | <1 | 3.9 | <1 | ND | 3.9 |
| M036 | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M036 | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| M036 | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| M049 | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| M049 | 7/23/2001 | <1 | <1 | <1 | ND | ND |
| M049 | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M049 | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| M049 | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| M053 | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M053 | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| M053 | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| M053 | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| M054 | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M054 | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M054 | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| M054 | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| M18D | 4/4/2001 | <1 | <1 | <1 | ND | ND |
| M18D | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M18D | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| M18D | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| M18D | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| M22D | 4/5/2001 | <1 | <1 | <1 | ND | ND |
| M22D | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| M22D | 10/2/2001 | <1 | <1 | <1 | 0.14J | ND |
| M22D | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| M22D | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| M38D | 4/6/2001 | <1 | <1 | <1 | ND | ND |
| M38D | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| M40D | 4/5/2001 | <1 | <1 | <1 | ND | ND |
| M40D | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| M40D | 4/12/2002 | <1 | <1 | <1 | ND | ND |
| M40S | 4/5/2001 | <1 | <1 | <1 | ND | ND |
| M40S | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| M40S | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| M41D | 4/5/2001 | <1 | <1 | <1 | ND | ND |
| M41D | 10/3/2001 | <1 | <1 | <1 | 0.11J | ND |
| M41D | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| TE01 | 4/10/2001 | <1 | <1 | <1 | ND | ND |
| TE01 | 4/11/2002 | <1 | <1 | <1 | ND | ND |

^am-, o-, p- Xylene if detected.

^b"J" values are not included in the "Total BTEX" value.

ND = Not detected.

J = Estimated value, result is between the reporting limit and the method detection limit.

*Table 8. BTEX Compounds Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | Benzene | Toluene | Ethylbenzene | Total Xylenes ^a | Total BTEX ^b |
|--------------|---------|----------------------|---------|---------|--------------|----------------------------|-------------------------|
| PIN20 | | 4.5 Acre Site | | | | | |
| DP01 | Shallow | 7/23/2001 | <1 | <1 | <1 | ND | ND |
| DP01 | Shallow | 10/1/2001 | <1 | <1 | <1 | ND | ND |
| DP01 | Shallow | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| DP01 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP01 | Deep | 7/23/2001 | 15 | <1 | <1 | ND | 15 |
| DP01 | Deep | 10/1/2001 | 9.8 | 0.27J | <1 | ND | 9.8 |
| DP01 | Deep | 1/9/2002 | 2J | <2.5 | <2.5 | ND | ND |
| DP01 | Deep | 4/10/2002 | 15 | <1 | <1 | ND | 15 |
| DP02 | Shallow | 7/23/2001 | 0.39J | <1 | <1 | ND | ND |
| DP02 | Shallow | 10/1/2001 | 0.38J | <1 | <1 | ND | ND |
| DP02 | Shallow | 1/9/2002 | 0.44J | <1 | <1 | ND | ND |
| DP02 | Shallow | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| DP02 | Deep | 7/23/2001 | <10 | <10 | <10 | ND | ND |
| DP02 | Deep | 10/1/2001 | 3.9 | 1.6 | <1 | ND | 5.5 |
| DP02 | Deep | 1/9/2002 | <250 | <250 | <250 | ND | ND |
| DP02 | Deep | 4/11/2002 | <100 | <100 | <100 | ND | ND |
| DP03 | Shallow | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP03 | Shallow | 10/1/2001 | <1 | <1 | <1 | ND | ND |
| DP03 | Shallow | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| DP03 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP03 | Deep | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP03 | Deep | 10/1/2001 | <1 | <1 | <1 | ND | ND |
| DP03 | Deep | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| DP03 | Deep | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP04 | Deep | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP04 | Deep | 10/1/2001 | <1 | <1 | <1 | ND | ND |
| DP04 | Deep | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| DP04 | Deep | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP05 | Deep | 7/23/2001 | 0.5J | 0.18J | <1 | ND | ND |
| DP05 | Deep | 10/1/2001 | 19 | <1 | <1 | ND | 19 |
| DP05 | Deep | 1/9/2002 | 7.8 | <1 | <1 | 0.29J | 7.8 |
| DP05 | Deep | 4/10/2002 | 16 | <1 | <1 | ND | 16 |
| DP06 | Shallow | 7/23/2001 | 14 | <1 | <1 | ND | 14 |
| DP06 | Shallow | 10/2/2001 | 8.6 | <1 | <1 | ND | 8.6 |
| DP06 | Shallow | 1/10/2002 | 12 | <1 | <1 | ND | 12 |
| DP06 | Shallow | 4/11/2002 | 14 | <1 | <1 | ND | 14 |
| DP06 | Deep | 7/23/2001 | 2.9J | <10 | <10 | ND | ND |
| DP06 | Deep | 10/2/2001 | 6.9 | <1 | <1 | ND | 6.9 |
| DP06 | Deep | 1/10/2002 | 8.7 | <1 | <1 | ND | 8.7 |
| DP06 | Deep | 4/11/2002 | 13 | <1 | <1 | ND | 13 |
| DP07 | Shallow | 7/23/2001 | <250 | <250 | <250 | ND | ND |
| DP07 | Shallow | 10/2/2001 | <250 | <250 | <250 | ND | ND |
| DP07 | Shallow | 1/10/2002 | <100 | <100 | <100 | ND | ND |

*Table 8 (continued). BTEX Compounds Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | Benzene | Toluene | Ethylbenzene | Total Xylenes ^a | Total BTEX ^b |
|----------|---------|--------------|---------|---------|--------------|----------------------------|-------------------------|
| DP07 | Shallow | 4/11/2002 | <50 | <50 | <50 | ND | ND |
| DP07 | Deep | 7/23/2001 | <50 | 7.3J | <50 | ND | ND |
| DP07 | Deep | 10/2/2001 | <50 | <50 | <50 | ND | ND |
| DP07 | Deep | 1/10/2002 | <50 | <50 | <50 | ND | ND |
| DP07 | Deep | 4/11/2002 | <100 | <100 | <100 | ND | ND |
| DP08 | Shallow | 7/25/2001 | <2.5 | <2.5 | <2.5 | ND | ND |
| DP08 | Shallow | 10/2/2001 | 0.34J | <2.5 | <2.5 | ND | ND |
| DP08 | Shallow | 1/10/2002 | 0.17J | <1 | <1 | 0.35J | ND |
| DP08 | Shallow | 4/11/2002 | 0.18J | <1 | <1 | ND | ND |
| DP08 | Deep | 7/25/2001 | <25 | <25 | <25 | ND | ND |
| DP08 | Deep | 10/2/2001 | 0.14J | 0.15J | <1 | ND | ND |
| DP08 | Deep | 1/10/2002 | <1 | <1 | <1 | ND | ND |
| DP08 | Deep | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| DP09 | Deep | 7/25/2001 | 0.18J | <1 | <1 | ND | ND |
| DP09 | Deep | 10/1/2001 | 0.33J | <1 | <1 | ND | ND |
| DP09 | Deep | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP09 | Deep | 4/10/2002 | 0.34J | <1 | <1 | ND | ND |
| DP10 | Deep | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP10 | Deep | 10/1/2001 | <1 | <1 | <1 | ND | ND |
| DP10 | Deep | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| DP10 | Deep | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP11 | Shallow | 7/25/2001 | 10 | <1 | 0.68J | 0.33J | 10 |
| DP11 | Shallow | 10/2/2001 | 8 | <1 | <1 | ND | 8 |
| DP11 | Shallow | 1/8/2002 | 9.7 | <1 | <1 | ND | 9.7 |
| DP11 | Shallow | 4/9/2002 | 11 | <1 | <1 | ND | 11 |
| DP11 | Deep | 7/25/2001 | 8.1 | <1 | <1 | ND | 8.1 |
| DP11 | Deep | 10/2/2001 | 0.26J | <1 | <1 | ND | ND |
| DP11 | Deep | 1/8/2002 | 0.54J | <1 | <1 | 0.36J | ND |
| DP11 | Deep | 4/9/2002 | 0.52J | <1 | <1 | ND | ND |
| DP12 | Shallow | 7/24/2001 | 0.15J | 0.14J | <1 | ND | ND |
| DP12 | Shallow | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| DP12 | Shallow | 1/9/2002 | 0.16J | <1 | <1 | ND | ND |
| DP12 | Shallow | 4/11/2002 | <1 | <1 | <1 | ND | ND |
| DP12 | Deep | 7/24/2001 | 5.8J | <10 | 11 | 1.8J | 11 |
| DP12 | Deep | 10/2/2001 | <5 | 0.67J | <5 | ND | ND |
| DP12 | Deep | 1/9/2002 | <5 | <5 | <5 | ND | ND |
| DP12 | Deep | 4/11/2002 | <250 | 500 | <250 | ND | 500 |
| DP13 | Shallow | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP13 | Shallow | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| DP13 | Shallow | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| DP13 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP13 | Deep | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP13 | Deep | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| DP13 | Deep | 1/9/2002 | <1 | <1 | <1 | ND | ND |
| DP13 | Deep | 4/10/2002 | <1 | <1 | <1 | ND | ND |

*Table 8 (continued). BTEX Compounds Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | Benzene | Toluene | Ethylbenzene | Total Xylenes ^a | Total BTEX ^b |
|----------|---------|--------------|---------|---------|--------------|----------------------------|-------------------------|
| DP14 | Shallow | 7/25/2001 | 0.79J | <1 | <1 | ND | ND |
| DP14 | Shallow | 10/3/2001 | 0.56J | <1 | <1 | ND | ND |
| DP14 | Shallow | 1/8/2002 | 0.75J | <1 | <1 | ND | ND |
| DP14 | Shallow | 4/8/2002 | 0.82J | <1 | <1 | ND | ND |
| DP14 | Deep | 7/25/2001 | 0.15J | <1 | <1 | ND | ND |
| DP14 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP14 | Deep | 1/8/2002 | <1 | <1 | 0.22J | ND | ND |
| DP14 | Deep | 4/8/2002 | 0.17J | <1 | <1 | ND | ND |
| DP15 | Shallow | 7/25/2001 | 0.26J | <1 | <1 | ND | ND |
| DP15 | Shallow | 10/3/2001 | 0.13J | <1 | <1 | ND | ND |
| DP15 | Shallow | 1/8/2002 | 0.28J | <1 | <1 | ND | ND |
| DP15 | Shallow | 4/8/2002 | 0.3J | <1 | <1 | ND | ND |
| DP15 | Deep | 7/25/2001 | <1 | <1 | <1 | 0.12J | ND |
| DP15 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP15 | Deep | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP15 | Deep | 4/8/2002 | <1 | <1 | <1 | ND | ND |
| DP16 | Deep | 7/25/2001 | <1 | <1 | <1 | ND | ND |
| DP16 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP16 | Deep | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP16 | Deep | 4/8/2002 | <1 | <1 | <1 | ND | ND |
| DP17 | Shallow | 7/25/2001 | 0.51J | <1 | <1 | ND | ND |
| DP17 | Shallow | 10/3/2001 | 0.21J | <1 | <1 | ND | ND |
| DP17 | Shallow | 1/8/2002 | 0.5J | <1 | <1 | ND | ND |
| DP17 | Shallow | 4/8/2002 | 0.42J | <1 | <1 | ND | ND |
| DP17 | Deep | 7/25/2001 | 0.45J | <1 | <1 | ND | ND |
| DP17 | Deep | 10/3/2001 | 0.25J | <1 | <1 | ND | ND |
| DP17 | Deep | 1/8/2002 | 0.24J | <1 | <1 | ND | ND |
| DP17 | Deep | 4/8/2002 | 0.32J | <1 | <1 | ND | ND |
| DP18 | Shallow | 7/25/2001 | <1 | <1 | <1 | ND | ND |
| DP18 | Shallow | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP18 | Shallow | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP18 | Shallow | 4/8/2002 | <1 | <1 | <1 | ND | ND |
| DP18 | Deep | 7/25/2001 | <1 | <1 | <1 | ND | ND |
| DP18 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP18 | Deep | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP18 | Deep | 4/8/2002 | <1 | <1 | <1 | ND | ND |
| DP19 | Deep | 7/26/2001 | <1 | <1 | <1 | ND | ND |
| DP19 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP19 | Deep | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP19 | Deep | 4/8/2002 | <1 | <1 | <1 | ND | ND |
| DP20 | Shallow | 7/26/2001 | <1 | <1 | <1 | ND | ND |
| DP20 | Shallow | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP20 | Shallow | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP20 | Shallow | 4/8/2002 | <1 | <1 | <1 | ND | ND |

*Table 8 (continued). BTEX Compounds Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | Benzene | Toluene | Ethylbenzene | Total Xylenes ^a | Total BTEX ^b |
|----------|---------|--------------|---------|---------|--------------|----------------------------|-------------------------|
| DP20 | Deep | 7/26/2001 | <1 | <1 | <1 | ND | ND |
| DP20 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP20 | Deep | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP20 | Deep | 4/8/2002 | <1 | <1 | <1 | ND | ND |
| DP21 | Shallow | 7/26/2001 | <1 | <1 | 0.14J | ND | ND |
| DP21 | Shallow | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP21 | Shallow | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP21 | Shallow | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP21 | Deep | 7/26/2001 | 0.65J | 1.4 | 0.34J | 1.5 | 2.9 |
| DP21 | Deep | 10/3/2001 | 0.47J | <1 | <1 | ND | ND |
| DP21 | Deep | 1/8/2002 | 0.57J | <1 | <1 | ND | ND |
| DP21 | Deep | 4/9/2002 | 0.49J | <1 | <1 | ND | ND |
| DP22 | Deep | 7/26/2001 | 2J | 0.46J | 0.39J | 1.53J | ND |
| DP22 | Deep | 10/4/2001 | 2J | <2.5 | <2.5 | ND | ND |
| DP22 | Deep | 1/7/2002 | 1.4 | <1 | <1 | ND | 1.4 |
| DP22 | Deep | 4/9/2002 | 1.3J | <2.5 | <2.5 | ND | ND |
| DP23 | Deep | 7/26/2001 | 0.14J | <1 | <1 | ND | ND |
| DP23 | Deep | 10/4/2001 | 0.2J | 0.59J | 0.28J | 1.1 | 1.1 |
| DP23 | Deep | 1/7/2002 | 0.27J | 0.23J | <1 | 0.36J | ND |
| DP23 | Deep | 4/9/2002 | 0.22J | <1 | 0.24J | ND | ND |
| DP24 | Shallow | 7/25/2001 | <1 | <1 | <1 | ND | ND |
| DP24 | Shallow | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| DP24 | Shallow | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP24 | Shallow | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP24 | Deep | 7/25/2001 | 0.3J | <1 | <1 | ND | ND |
| DP24 | Deep | 10/4/2001 | 0.23J | <1 | <1 | ND | ND |
| DP24 | Deep | 1/8/2002 | 0.39J | <1 | <1 | ND | ND |
| DP24 | Deep | 4/9/2002 | 0.35J | <1 | <1 | ND | ND |
| DP25 | Shallow | 7/25/2001 | <1 | <1 | <1 | ND | ND |
| DP25 | Shallow | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| DP25 | Shallow | 1/8/2002 | <1 | <1 | <1 | ND | ND |
| DP25 | Shallow | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP25 | Deep | 7/25/2001 | <5 | <5 | <5 | ND | ND |
| DP25 | Deep | 10/4/2001 | <2.5 | <2.5 | <2.5 | ND | ND |
| DP25 | Deep | 1/8/2002 | <2.5 | <2.5 | <2.5 | ND | ND |
| DP25 | Deep | 4/9/2002 | <2.5 | <2.5 | <2.5 | ND | ND |
| DP26 | Deep | 7/26/2001 | <10 | 1.8J | <10 | ND | ND |
| DP26 | Deep | 10/4/2001 | <100 | <100 | <100 | ND | ND |
| DP26 | Deep | 1/7/2002 | <2.5 | <2.5 | <2.5 | ND | ND |
| DP26 | Deep | 4/9/2002 | <100 | <100 | <100 | ND | ND |
| DP27 | Deep | 7/26/2001 | 1.2 | 1.8 | 0.57J | 3.8 | 6.8 |
| DP27 | Deep | 10/4/2001 | 1 | 0.29J | <1 | ND | 1 |
| DP27 | Deep | 1/7/2002 | <1 | 1 | <1 | 0.39J | 1 |
| DP27 | Deep | 4/9/2002 | 5.5 | 0.35J | <1 | 0.3J | 5.5 |
| DP28 | Shallow | 7/26/2001 | 0.59J | 7.1 | 0.8J | 4.2 | 11.3 |

*Table 8 (continued). BTEX Compounds Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | Benzene | Toluene | Ethylbenzene | Total Xylenes ^a | Total BTEX ^b |
|----------|---------|--------------|---------|---------|--------------|----------------------------|-------------------------|
| DP28 | Shallow | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| DP28 | Shallow | 1/7/2002 | <1 | <1 | <1 | ND | ND |
| DP28 | Shallow | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP28 | Deep | 7/26/2001 | 0.24J | 1.2 | 0.24J | 1.1 | 2.3 |
| DP28 | Deep | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| DP28 | Deep | 1/7/2002 | <1 | <1 | <1 | ND | ND |
| DP28 | Deep | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP29 | Shallow | 7/26/2001 | <1 | 0.18J | <1 | ND | ND |
| DP29 | Shallow | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| DP29 | Shallow | 1/7/2002 | <1 | <1 | <1 | ND | ND |
| DP29 | Shallow | 4/9/2002 | 0.28J | 0.19J | <1 | 0.33J | ND |
| DP29 | Deep | 7/26/2001 | <1 | 0.13J | <1 | ND | ND |
| DP29 | Deep | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| DP29 | Deep | 1/7/2002 | <1 | <1 | <1 | ND | ND |
| DP29 | Deep | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP30 | Shallow | 1/7/2002 | <1 | <1 | <1 | ND | ND |
| DP30 | Shallow | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP30 | Deep | 7/26/2001 | <1 | 0.15J | <1 | ND | ND |
| DP30 | Deep | 10/4/2001 | <1 | <1 | <1 | ND | ND |
| DP30 | Deep | 1/7/2002 | <1 | <1 | <1 | 0.28J | ND |
| DP30 | Deep | 4/9/2002 | <1 | <1 | <1 | ND | ND |
| DP31 | Shallow | 7/24/2001 | 0.17J | <1 | <1 | ND | ND |
| DP31 | Shallow | 10/2/2001 | 0.12J | <1 | <1 | ND | ND |
| DP31 | Shallow | 1/9/2002 | 0.22J | <1 | <1 | ND | ND |
| DP31 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP31 | Deep | 7/24/2001 | <10 | <10 | <10 | ND | ND |
| DP31 | Deep | 10/2/2001 | <5 | <5 | <5 | ND | ND |
| DP31 | Deep | 1/9/2002 | <2.5 | <2.5 | <2.5 | ND | ND |
| DP31 | Deep | 4/10/2002 | <10 | <10 | <10 | ND | ND |
| DP32 | Shallow | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP32 | Shallow | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| DP32 | Shallow | 1/10/2002 | <1 | <1 | <1 | ND | ND |
| DP32 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP32 | Deep | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP32 | Deep | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| DP32 | Deep | 1/10/2002 | 0.2J | <1 | <1 | 0.29J | ND |
| DP32 | Deep | 4/10/2002 | <5 | <5 | <5 | ND | ND |
| DP33 | Shallow | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP33 | Shallow | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP33 | Shallow | 1/10/2002 | <1 | <1 | <1 | ND | ND |
| DP33 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP33 | Deep | 7/24/2001 | <1 | 0.2J | 0.37J | ND | ND |
| DP33 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP33 | Deep | 1/10/2002 | <1 | <1 | 0.16J | ND | ND |

*Table 8 (continued). BTEX Compounds Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Depth | Date Sampled | Benzene | Toluene | Ethylbenzene | Total Xylenes ^a | Total BTEX ^b |
|----------|---------|--------------|---------|---------|--------------|----------------------------|-------------------------|
| DP33 | Deep | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP34 | Shallow | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP34 | Shallow | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP34 | Shallow | 1/10/2002 | <1 | <1 | <1 | ND | ND |
| DP34 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP34 | Deep | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP34 | Deep | 10/3/2001 | <1 | <1 | <1 | ND | ND |
| DP34 | Deep | 1/10/2002 | <1 | <1 | <1 | ND | ND |
| DP34 | Deep | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP35 | Shallow | 7/24/2001 | <1 | <1 | <1 | ND | ND |
| DP35 | Shallow | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| DP35 | Shallow | 1/10/2002 | <1 | <1 | <1 | ND | ND |
| DP35 | Shallow | 4/10/2002 | <1 | <1 | <1 | ND | ND |
| DP35 | Deep | 7/24/2001 | 0.37J | <1 | <1 | ND | ND |
| DP35 | Deep | 10/2/2001 | <1 | <1 | <1 | ND | ND |
| DP35 | Deep | 1/10/2002 | 0.35J | <1 | <1 | ND | ND |
| DP35 | Deep | 4/10/2002 | 0.72J | <1 | <1 | ND | ND |

^am-, o-, p-Xylene if detected.

^b"J" values are not included in the "Total BTEX" value.

ND = Not detected.

J = Estimated value, result is between the reporting limit and the method detection limit.

**Table 9. Additional VOCs Concentrations From DPT Locations at the 4.5 Acre Site
(reported in micrograms per liter)**

| Location | Depth | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 2-Chloroethyl Vinyl Ether | Bromo-methane | Carbon tetrachloride | Chloroform | Chloro-methane | Dichloro-difluoro-methane | MTBE | Tetra-chloro-ethene | Trichloro-fluoro-methane |
|--------------|---------|--------------|-----------------------|---------------------------|-----------------------|---------------------------|---------------|----------------------|------------|----------------|---------------------------|-------|---------------------|--------------------------|
| PIN20 | | | 4.5 Acre Site | | | | | | | | | | | |
| DP01 | Shallow | 1/9/2002 | | | | | | | | | 5.7 | | | |
| DP01 | Deep | 1/9/2002 | | | | | | | | | 1J | | | |
| DP02 | Deep | 7/23/2001 | | | | | | | 6J | | | | | |
| DP02 | Deep | 10/1/2001 | | | | | | | 27 | | | | | |
| DP02 | Deep | 1/9/2002 | | | | 2500 | | | | | | | | |
| DP04 | Deep | 1/9/2002 | | | | | | | | | 0.25J | | | |
| DP05 | Deep | 1/9/2002 | | | | | | | | | 4.1 | | | |
| DP07 | Shallow | 7/23/2001 | | | | | | 27J | | | | | | |
| DP08 | Shallow | 7/25/2001 | | | 3.3 | | | | | | | | | |
| DP11 | Deep | 7/25/2001 | | | | | 3.5 | | | | | | | |
| DP11 | Deep | 10/2/2001 | | | | | | | | 0.28J | | | | |
| DP11 | Deep | 1/8/2002 | | | | | | | | | 5.8 | | | |
| DP12 | Shallow | 7/24/2001 | | 1.8 | | | | | | | | 0.31J | | |
| DP13 | Shallow | 7/24/2001 | | | 1.9 | | | | | | | | | |
| DP20 | Deep | 4/8/2002 | | | | | | | | | 5.7J | | | |
| DP21 | Shallow | 7/26/2001 | | 0.83J | | | | | | | | | | |
| DP23 | Deep | 7/26/2001 | | 1.1 | | | | | | | | | | 0.22J |
| DP23 | Deep | 1/7/2002 | | | | | | | | | | | | |
| DP24 | Shallow | 7/25/2001 | | 1.4 | | | | | | | | | | |
| DP26 | Deep | 1/7/2002 | | 0.82J | | | | | | | | | | |
| DP27 | Deep | 10/4/2001 | | | | | | | 0.38J | | | | | |
| DP31 | Shallow | 10/2/2001 | 0.11J | | | | | | | | | | | |
| DP31 | Deep | 7/24/2001 | | | | | | | 1.8J | | | | | |
| DP31 | Deep | 10/2/2001 | 1.3J | | | | | | | | | | | |
| DP31 | Deep | 1/9/2002 | | 0.91J | | | | | | | | | | |
| DP32 | Deep | 10/2/2001 | 0.28J | | | | | | | | | | | |

J = Estimated value, result is between the reporting limit and the method detection limit.

*Table 10. Additional VOCs Concentrations from Locations at the 4.5 Acre Site
(reported in micrograms per liter)*

| Location | Date Sampled | Chloroform | Chloro-methane | Tetrachloro-ethene |
|--------------|----------------------|------------|----------------|--------------------|
| PIN20 | 4.5 Acre Site | | | |
| 0503 | 4/6/2001 | | | 0.16J |
| M007 | 4/6/2001 | | 0.2J | |
| M011 | 7/23/2001 | 0.24J | | |
| M019 | 10/2/2001 | 5.2 | | |

J = Estimated value, result is between the reporting limit and the method detection limit.

*Table 11. HPC Data for Selected 4.5 Acre Site DPT Locations
HPC units are colony forming units (CFU)/mL*

| Location | Depth | Baseline April 2001 | July 2001 | October 2001 | January 2002 | April 2002 |
|----------|---------|---------------------|-----------|--------------|--------------|------------|
| DP06 | Shallow | 15 | >6,000 | 70 | 16 | >3,000 |
| DP06 | Deep | 280 | 140 | 42 | 5 | >3,000 |
| DP07 | Shallow | 210 | 150 | 4 | 2 | >3,000 |
| DP07 | Deep | 340 | 440 | 15 | 2 | 28 |
| DP08 | Shallow | 38 | 150 | 590 | <1 | 11 |
| DP08 | Deep | 170 | 690 | 2 | 2 | 15 |
| DP24 | Shallow | 43 | 74 | 160 | 18 | 180 |
| DP24 | Deep | 160 | 240 | 190 | 15 | 81 |
| DP25 | Shallow | 41 | 150 | 18 | 4 | 19 |
| DP25 | Deep | 270 | 2,900 | 36 | 23 | 59 |

*Table 12. Oxidized Iron as Percent of Total Iron
Field analysis of dissolved total and ferrous iron measured in April 2002 are reported in Table 4.*

| Location | Depth | Baseline April 2001 | July 2001 | October 2001 | January 2001 | April 2002 |
|----------|---------|---------------------|-----------|----------------|----------------|----------------|
| DP01 | Shallow | 73 | 37 | 10 | 26 | 23 |
| DP01 | Deep | 11 | 42 | 41 | — | 51 |
| DP02 | Shallow | 17 | 11 | 24 | 0 ^a | 15 |
| DP02 | Deep | 23 | 8 | 31 | 0 ^a | 10 |
| DP03 | Shallow | 5 | 5 | 10 | 12 | 13 |
| DP03 | Deep | — | 15 | 48 | 0 ^a | 24 |
| DP04 | Deep | 4 | 21 | 48 | 3 | 23 |
| DP05 | Deep | 18 | — | 44 | 27 | 11 |
| DP06 | Shallow | 10 | 48 | 26 | 0 | 6 |
| DP06 | Deep | 0 ^a | 67 | 21 | 3 | 24 |
| DP07 | Shallow | 15 | 11 | 0 ^a | 0 ^a | 0 ^a |
| DP07 | Deep | 11 | 13 | 6 | 0 | 24 |
| DP08 | Shallow | 14 | 7 | 0 ^a | 1 | 11 |
| DP08 | Deep | 4 | 9 | 5 | 1 | 0 |
| DP09 | Deep | 4 | 32 | 30 | 2 | 30 |
| DP10 | Deep | 0 | 18 | 28 | 17 | 0 ^a |
| DP11 | Shallow | 15 | 38 | 13 | 1 | 21 |
| DP11 | Deep | 18 | 38 | 48 | 6 | 21 |
| DP12 | Shallow | 9 | 10 | 17 | 0 ^a | 11 |
| DP12 | Deep | 2 | 16 | 42 | 0 | 11 |
| DP13 | Shallow | 0 ^a | 5 | 0 ^a | 0 ^a | 6 |
| DP13 | Deep | 6 | 12 | 11 | 0 | 8 |
| DP14 | Shallow | 12 | 85 | 29 | 19 | 31 |
| DP14 | Deep | 23 | 56 | 33 | 25 | 32 |
| DP15 | Shallow | 21 | 75 | 55 | 43 | 38 |
| DP15 | Deep | — | 40 | 41 | 26 | 28 |
| DP16 | Deep | 11 | 29 | 30 | 17 | 25 |
| DP17 | Shallow | 35 | 66 | 57 | 32 | 32 |
| DP17 | Deep | 20 | 33 | 54 | 16 | 27 |
| DP18 | Shallow | 6 | 27 | 38 | 17 | 17 |
| DP18 | Deep | 2 | 29 | 28 | 12 | 20 |
| DP19 | Deep | 2 | 16 | 39 | 9 | 24 |
| DP20 | Shallow | 5 | 19 | 20 | 9 | 31 |
| DP20 | Deep | 4 | 13 | 23 | 26 | 26 |
| DP21 | Shallow | 11 | 15 | 23 | 2 | 14 |
| DP21 | Deep | 6 | 23 | 36 | 12 | 29 |
| DP22 | Deep | 1 | 32 | 15 | 5 | 26 |
| DP23 | Deep | 13 | 45 | 34 | 7 | 14 |
| DP24 | Shallow | 4 | 3 | 6 | 8 | 0 |
| DP24 | Deep | — | 30 | 25 | 7 | 6 |
| DP25 | Shallow | 3 | 14 | 14 | 3 | 11 |
| DP25 | Deep | 6 | 39 | 68 | 11 | 26 |
| DP26 | Deep | 4 | 43 | 59 | 64 | 50 |

Table 12 (continued). Oxidized Iron as Percent of Total Iron

| Location | Depth | Baseline April 2001 | July 2001 | October 2001 | January 2001 | April 2002 |
|-----------------|--------------|----------------------------|------------------|---------------------|---------------------|-------------------|
| DP27 | Deep | 24 | 40 | 13 | 26 | 27 |
| DP28 | Shallow | 40 | 26 | 90 | 4 | 17 |
| DP28 | Deep | 7 | 16 | 29 | 16 | 29 |
| DP29 | Shallow | 35 | 44 | 14 | 13 | 44 |
| DP29 | Deep | 14 | 31 | 29 | 5 | 33 |
| DP30 | Shallow | — | — | — | 29 | 28 |
| DP30 | Deep | — | 34 | 77 | 38 | 38 |
| DP31 | Shallow | — | 17 | 21 | 5 | 21 |
| DP31 | Deep | — | 16 | 30 | 0 ^a | 14 |
| DP32 | Shallow | — | 21 | 53 | 1 | 14 |
| DP32 | Deep | — | 24 | 48 | 76 | 24 |
| DP33 | Shallow | — | 51 | 42 | 39 | 16 |
| DP33 | Deep | — | 29 | 15 | 0 ^a | 12 |
| DP34 | Shallow | — | 46 | 17 | 2 | 16 |
| DP34 | Deep | — | 43 | 47 | 16 | 12 |
| DP35 | Shallow | — | 41 | 47 | 0 ^a | 22 |
| DP35 | Deep | — | 39 | 46 | 33 | 27 |

^aFerrous Iron > Total Iron

— = Not measured

Appendix A

Laboratory Reports—April 2002 Quarterly Results

*Table A–1. Relative Percent Difference (RPD) for Duplicate Samples
4.5 Acre Site*

| Sample ID | Duplicate ID | Case Number | Constituent | S ^a | D ^b | RPD Value | 5 times DL ^c | Fail ^d |
|-----------------|--------------|-------------|------------------------|----------------|----------------|-----------|-------------------------|-------------------|
| PIN20-M011 | PIN20-0563 | B211426 | Nondetect | | | | | |
| PIN20-M015 | PIN20-0568 | B211425 | Vinyl chloride | 0.41 | 0.5 | 19.8 | 5 | |
| PIN20-DP05-N001 | PIN20-0550 | B211400 | Benzene | 16 | 13 | 20.7 | 5 | |
| | | | Ethylbenzene | 0.5 | 0.18 | 94.1 | 5 | |
| | | | m,p-xylene | 0.5 | 0.36 | 32.6 | 5 | |
| | | | o-xylene | 0.5 | 0.16 | 103.0 | 5 | |
| | | | Toluene | 0.5 | 0.2 | 85.7 | 5 | |
| PIN20-DP16-N001 | PIN20-0551 | B211347 | cis-1,2-dichloroethene | 0.37 | 0.44 | 17.3 | 5 | |
| | | | Methylene chloride | 2.5 | 0.35 | 150.9 | 25 | |
| PIN20-DP33-N002 | PIN20-0552 | B211401 | Nondetect | | | | | |

^aS = Original sample (N001), VOC concentration in µg/L.

^bD = Duplicate sample (N002), VOC concentration in µg/L.

^cDL = Detected limit.

^dFail is an RPD greater than "30% and an original or duplicate sample more than 5 times the detection limit.

End of current text